

DVD video player

DVD815

Instructions for use



Let's make things better.

PHILIPS **MAGNAVOX**

SAFETY PRECAUTIONS

CAUTION: This Digital Video Disc Player employs a Laser System.
To ensure proper use of this product, please read this owner's manual carefully and retain for future reference.
Should the unit require maintenance, contact an authorized service location - see service procedure.

Use of controls, adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure.
Visible laser radiation when open and interlocks defeated.
DO NOT STARE INTO BEAM.

FCC NOTICE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: Changes or modifications made to this equipment, not expressly approved by Philips Consumer Electronics Company, or parties authorized by Philips Consumer Electronics Company, could void the user's authority to operate the equipment.

Location of the required label

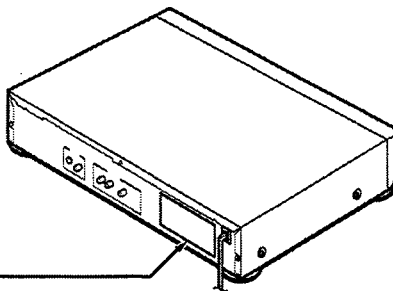
PRODUCT IS CERTIFIED BY THE MANUFACTURER TO
COMPLY WITH DHHS RULES 21 CFR SUBCHAPTER J
APPLICABLE AT THE DATE OF MANUFACTURE.

MANUFACTURED

DISTRIBUTED BY:

PHILIPS CONSUMER ELECTRONICS CO.

P. O. BOX 14810 KNOXVILLE, TN 37914-1810



IMPORTANT SAFETY INSTRUCTIONS

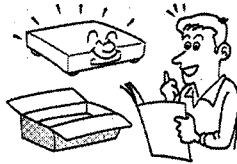
CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS GIVEN IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit is fully transistorized and does not contain any parts that can be repaired by the user.

DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

1. Read owner's manual

After unpacking this product, read the owner's manual carefully, and follow all the operating and other instructions.



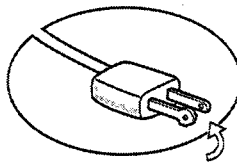
2. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.



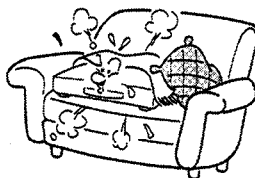
3. Grounding or Polarization

This product may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.



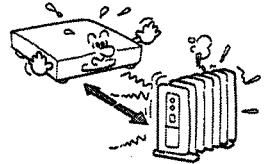
4. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.



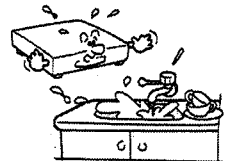
5. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.



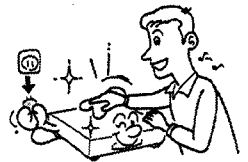
6. Water and Moisture

Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool and the like.



7. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.



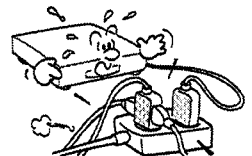
8. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.



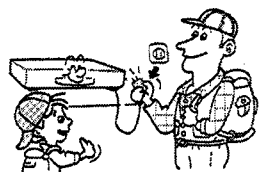
9. Overloading

Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.



10. Lightning

For added protection for this product during a storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power-line surges.



11. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.



12. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

13. Accessories

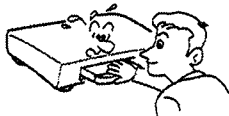
Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



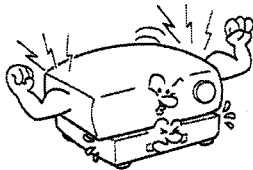
14. Disc Tray

Keep your fingers well clear of the disc tray as it is closing. It may cause serious personal injury.



15. Burden

Do not place a heavy object on the product or step on it. The object may fall, causing serious personal injury and serious damage to the product.



16. Headphones

When you use headphones, keep the volume at a moderate level. If you use the headphones continuously at a high volume, it may cause hearing damage.



17. Disc

Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.



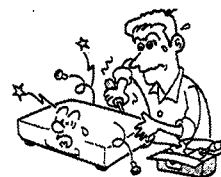
18. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- If the product exhibits a distinct change in performance - this indicates a need for service.

19. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

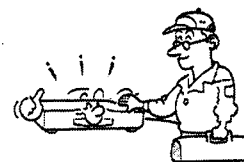


20. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

21. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.



Precautions

Notes on Handling

- When shipping the DVD video player, the original shipping carton and packing materials come in handy. For maximum protection, repack the unit as it was originally packed at the factory.
- Do not use volatile liquids, such as insect spray, near the DVD video player. Do not leave rubber or plastic products in contact with the DVD video player for a long time. They will leave marks on the cabinet.
- The top and rear panels of the DVD video player may become warm after a long period of use. This is not a malfunction.
- When the DVD video player is not in use, be sure to remove the disc and turn off the power.
- If you do not use the DVD video player for a long period, the unit may not function properly in the future. Use the DVD video player occasionally.

Notes on Location

- When you place this DVD video player near a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. In this case, place the DVD video player away from the TV, radio, or VCR.

Notes on Cleaning

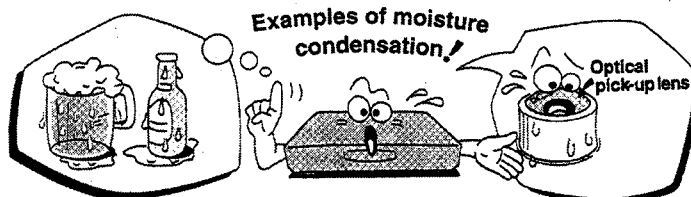
Use a soft, dry cloth for cleaning.

- For stubborn dirt, soak the cloth in a weak detergent solution, wring the cloth well, and wipe the unit. Use a dry cloth to wipe it dry.
Do not use any type of solvent, such as thinner and benzene, as they may damage the surface of the DVD video player.
- If you use a chemical saturated cloth to clean the unit, follow that product's instructions.

Notes on Moisture Condensation

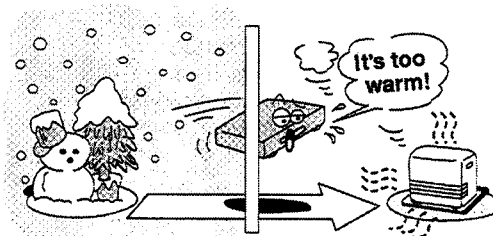
Moisture condensation damages the DVD video player. Please read the following carefully.

Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day. Drops of water form on the outside of the glass. In the same way, moisture may condense on the optical pick-up lens inside this unit, one of the most crucial internal parts of the DVD video player.



■ **Moisture condensation occurs during the following cases.**

- When you bring the DVD video player directly from a cold place to a warm place.
- When you use the DVD video player in a room where you just turned on the heater, or a place where the cold wind from the air conditioner directly hits the unit.
- In summer, when you use the DVD video player in a hot and humid place just after you move the unit from an air conditioned room.



■ **Do not use the DVD video player when moisture condensation may occur.**

If you use the DVD video player in such a situation, it may damage discs and internal parts. Remove the disc, connect the power cord of the DVD video player to the wall outlet, turn on the DVD video player, and leave it for two or three hours. After two or three hours, the DVD video player will have warmed up and evaporated any moisture. Keep the DVD video player connected to the wall outlet and moisture condensation will seldom occur.

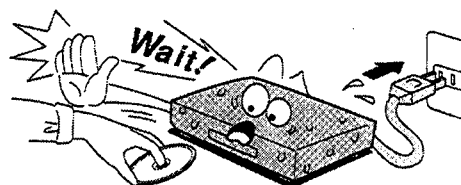


Table of Contents

Introduction

- SAFETY PRECAUTIONS 2
- IMPORTANT SAFETY INSTRUCTIONS 3, 4
- Precautions 5
- Identification of Controls 7-10
 - Front Panel / Rear Panel / DVD display
 - Remote Control
 - Preparing the Remote Control
 - Operating with the Remote Control

Connections

- Connecting to a TV 11
- Connecting to an Audio System 12
- Connecting to Optional Equipment 13, 14
 - Enjoying Dolby Digital (AC-3) Sound
 - Enjoying Digital Theater Systems (DTS) Sound
 - Enjoying Dolby Pro Logic Surround Sound
 - Enjoying Two-channel Digital Stereo Sound

Basic Playback

- Playing a Disc 15-18
 - Basic Playback
 - Playing at Twice, Eight Times, or Thirty Times the Normal Speed
 - Playing Frame by Frame
 - Playing in Slow Motion
 - Resuming Playback from the Same Location
- Locating a Specific Title, Chapter, or Track 19, 20
 - Locating a Title Using the Title Menu
 - Locating a Title
 - Locating a Specific Chapter or Track Directly
 - Locating a Specific Chapter or Track
 - Locating a Specific Location on the Disc

Advanced Playback

- Playing Repeatedly 21
 - Repeating a Title, Chapter, or Track
 - Repeating a Specific Segment
- Playing in a Favorite Order 22
 - Setting Titles, Chapters, or Tracks in a Favorite Order
- Playing in Random Order 23
 - Playing Titles in Random Order
 - Playing Chapter or Tracks in Random Order
- Zooming a Picture/
Playing 3-D (N-2-2) Sound 24
 - Zooming a Picture
 - Playing 3-D (N-2-2) Sound
- Selecting the Camera Angle 25
 - Changing the Camera Angle
- Selecting a Language 26
 - Selecting a Playback Audio Setting
- Selecting Subtitles 27
 - Displaying Subtitles
 - Selecting a Subtitle Language
- Using the On-Screen Display 28
 - Checking the Operational Status
 - Checking the Remaining Time and Setting Status

Function Setup

- Customizing the Settings 29-36
 - Displaying the SET UP MENU Screen
 - Setting the Audio
 - Setting the Functions
 - Setting the Displays
- Setting the Parental Lock 37, 38
 - Setting the Parental Lock
- Table of Languages 39

Others

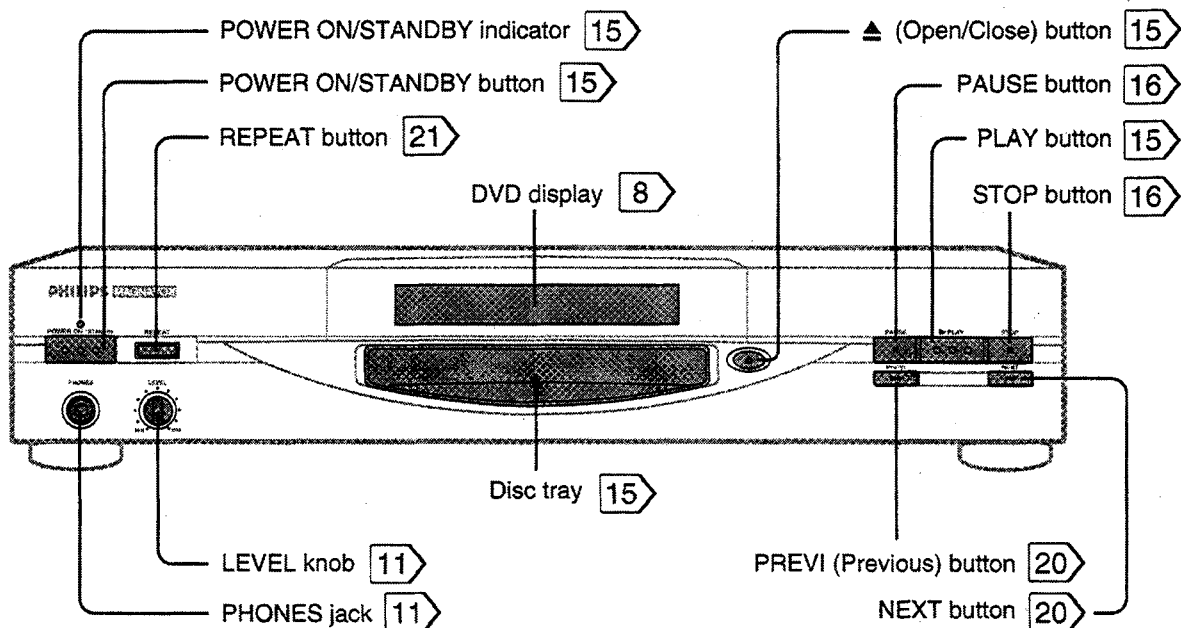
- Notes on Discs 40
- Before Calling Service Personnel 41
- Specifications 42
- Factory Service Center Locations 43, 44
- Limited Warranty 45

Identification of Controls

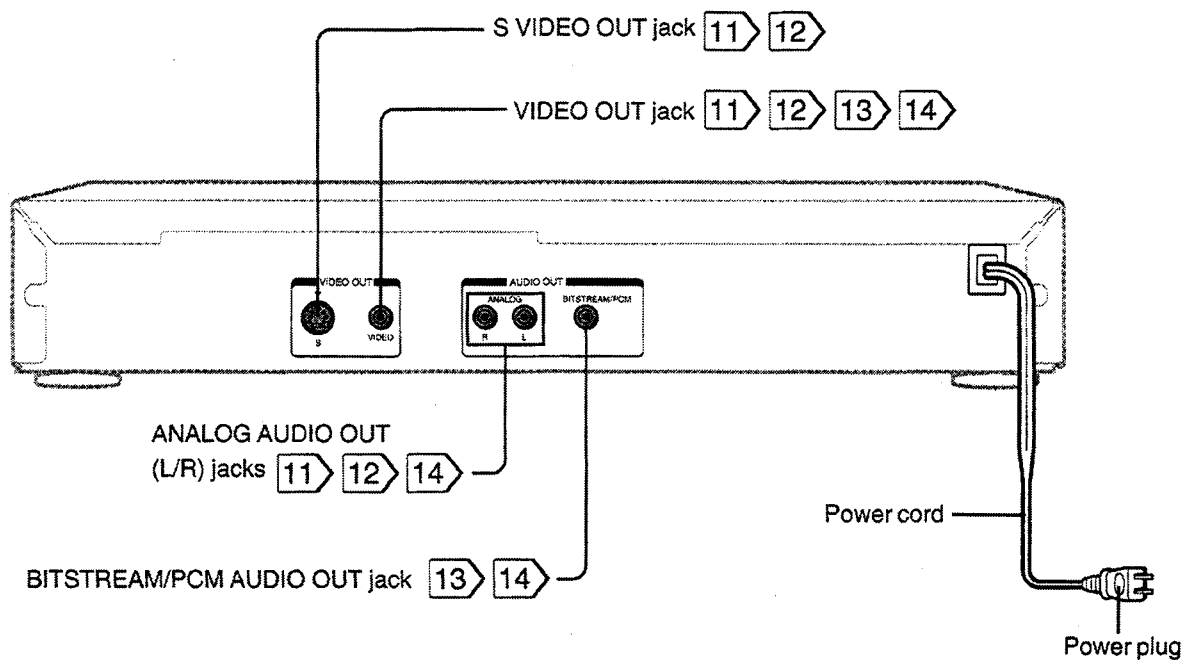
See the page in  for details.

Front Panel / Rear Panel / DVD Display

Front Panel



Rear Panel



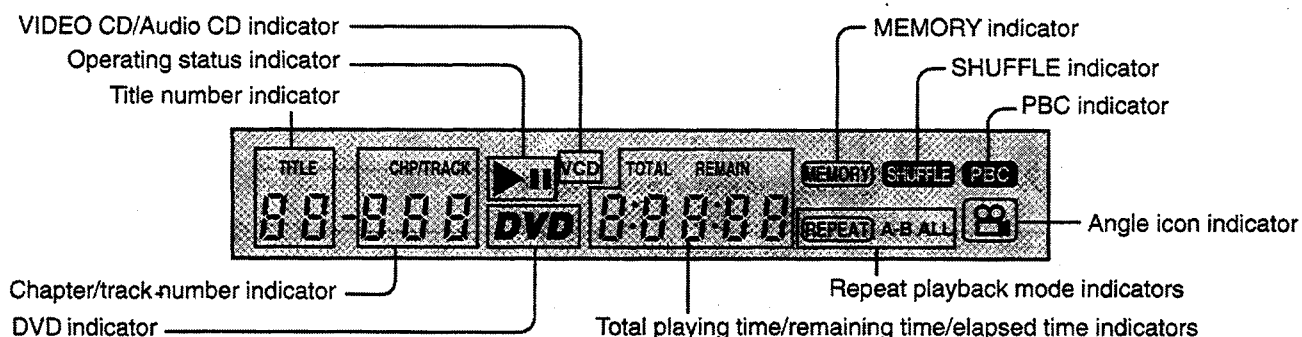
DVD Display

- Pressing of the FL ON/OFF button on the remote control turns the DVD display on or off.

FL ON/OFF



On ←→ Off



- The indicators vary depending on the kinds of discs you play.

DVD Video discs

- When closing the disc tray:

Example



Total number of titles

Some DVD video discs may not display the total number of titles.

- During playback:

Example



Playing chapter 3 in title 2 Elapsed time of the current title

Some DVD video discs may not display the chapter numbers or elapsed time.

VIDEO CDs

- When closing the disc tray:

Example



Total number of tracks Total playing time of the disc
Lights up when using a PBC-controllable VIDEO CD.

- During playback:

Example



Playing track 6 Elapsed time of the current track

Some VIDEO CDs may not display the track numbers or elapsed time.

Audio CDs

- When closing the disc tray:

Example



Total number of tracks Total playing time of the disc

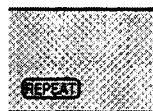
- During playback:

Example

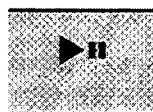


Playing track 6 Elapsed time of the current track

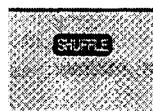
Other indicators



When playing the same title, chapter or track repeatedly. **[21]**



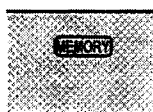
When playback is paused. **[16]**



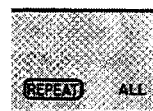
During random playback. **[23]**



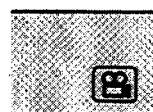
When playing a specific segment repeatedly. (A-B repeat) **[21]**



During memory playback. **[22]**




When playing the entire disc repeatedly. **[21]**

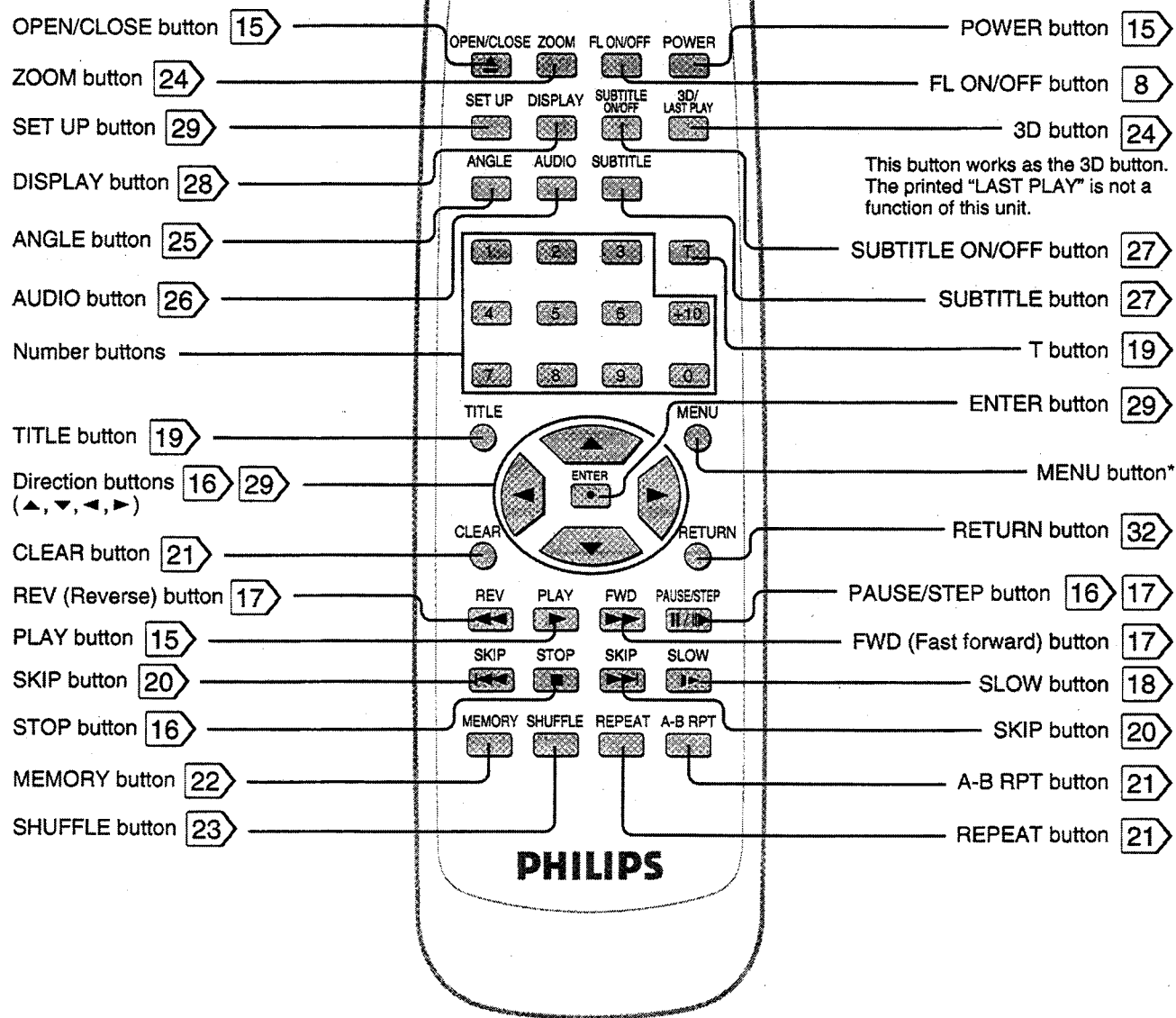


When the camera angle can be changed. **[25]**

Identification of Controls (continued)

The instructions in this manual describe the functions on the remote control.
See the page number inside the  for details.

Remote Control

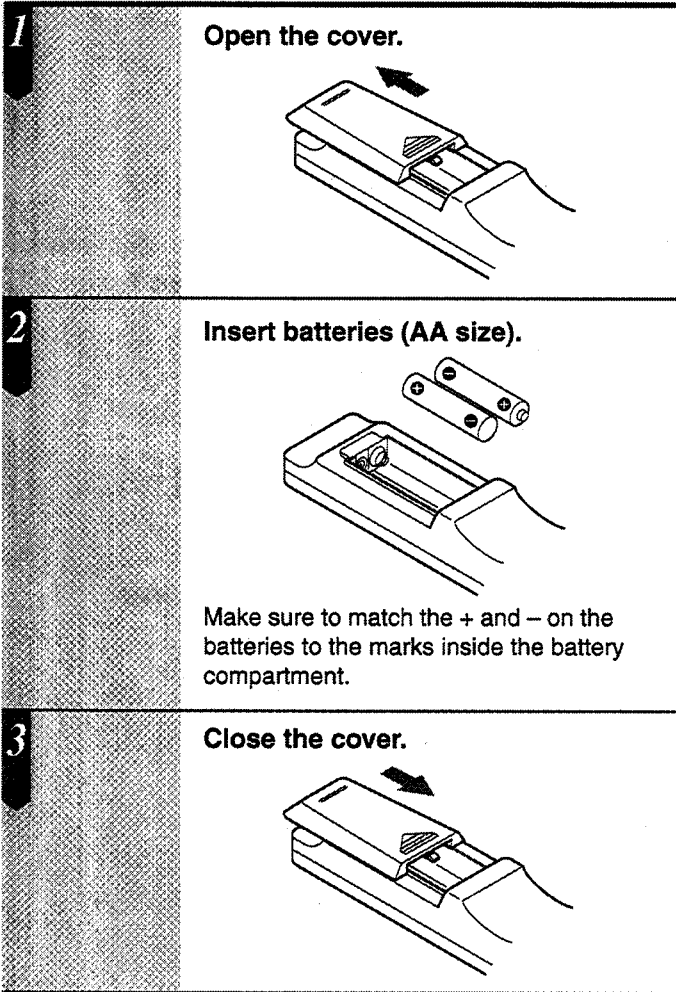


*MENU button

Use the MENU button to display the menu screen included on DVD video discs. To operate a menu screen, follow the instructions in "Locating a Title Using the Title Menu" **19**.

Preparing the Remote Control

Insert the batteries into the remote control so you can use it to operate the DVD video player.



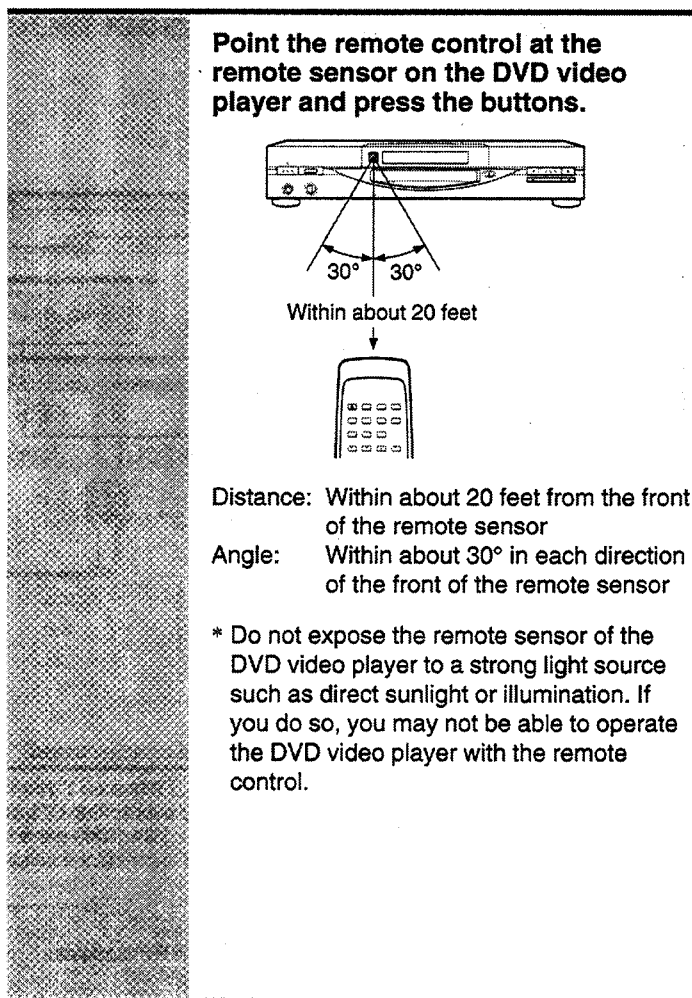
Notes on batteries

Improper use of batteries may cause battery leakage and corrosion. To operate the remote control correctly, follow the instructions below.

- Do not insert batteries into the remote control in the wrong direction (follow the +/– signs).
- Do not charge, heat, open, or short-circuit the batteries. Do not throw batteries into a fire.
- Do not leave dead or exhausted batteries in the remote control.
- Do not use different types of batteries together or mix old and new batteries.
- If you do not use the remote control for a long period of time, remove the batteries to avoid possible damage from battery corrosion.
- If the remote control does not function correctly or if the operating range becomes reduced, replace all batteries with new ones.
- If battery leakage occurs, wipe the battery liquid from the battery compartment, then insert new batteries.

Operating with the Remote Control

This section shows you how to use the remote control.



Notes on the remote control

- Point the remote control at the remote sensor of the DVD video player.
- Do not drop the remote control.
- Do not leave the remote control near an extremely hot or humid place.
- Do not spill water into or put anything wet on the remote control.
- Do not open the remote control.

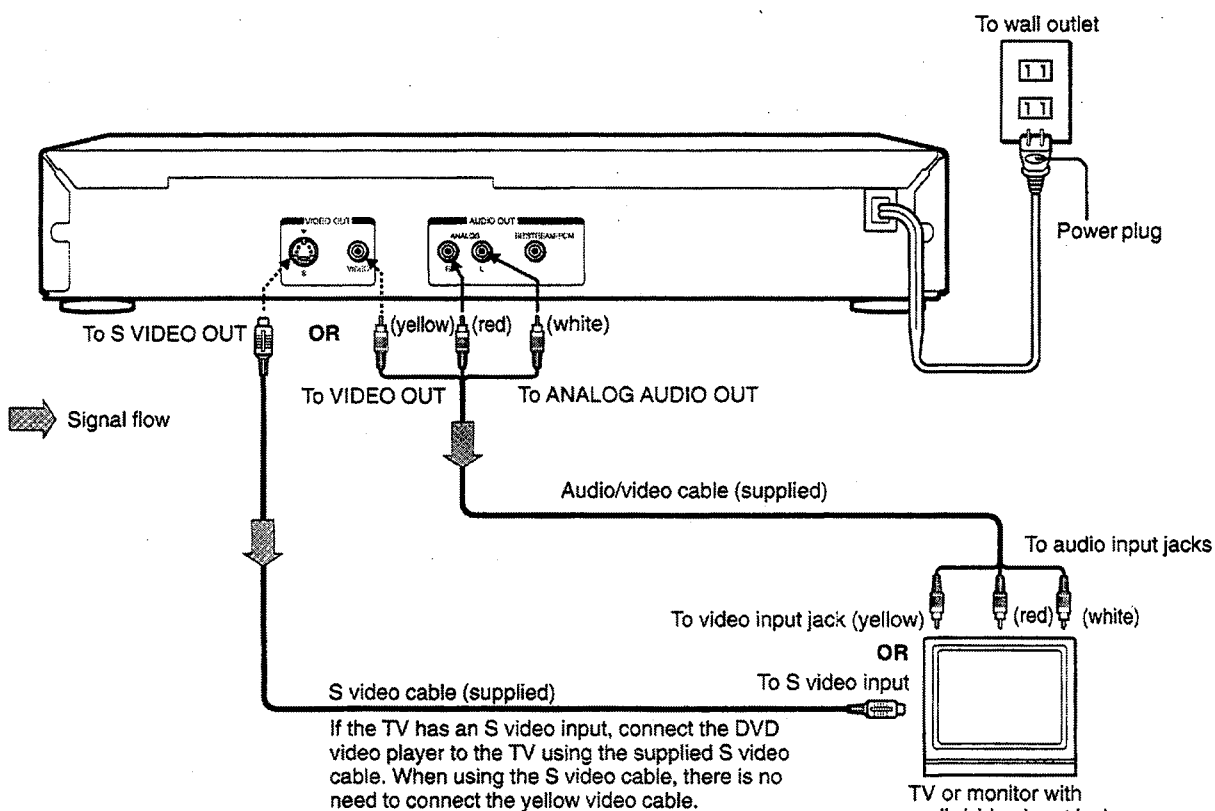
Connecting to a TV

Connect the DVD video player to your TV.

Connecting to a TV

Setting of the sound output

From the on-screen displays, set "AUDIO OUT SEL." to "ANALOG." 29 31



If your TV has an RF (Antenna In) jack only, use an RF modulator (not supplied) to connect the DVD player to your TV.

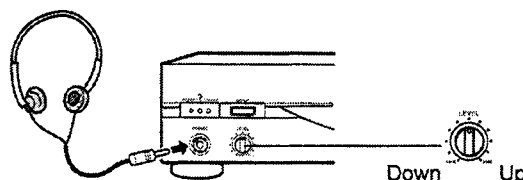
Notes

- Refer to the owner's manual of the connected TV as well.
- When you connect the DVD video player to your TV, be sure to turn off the power and unplug both units from the wall outlet before making any connections.
- If your television set has one audio input jack, use a Y cable adapter (not supplied) to connect the DVD video player to your TV.
- Connect the DVD video player directly to your TV. If you connect the DVD video player to a VCR, TV/VCR combination, or video selector, the playback picture may be distorted as DVD video discs are copy protected.

Connecting headphones

Connect headphones to the PHONES jack on the front panel using a stereo plug.

Before connecting, temporarily turn down the volume with the LEVEL knob. Readjust to your preference when playback begins.



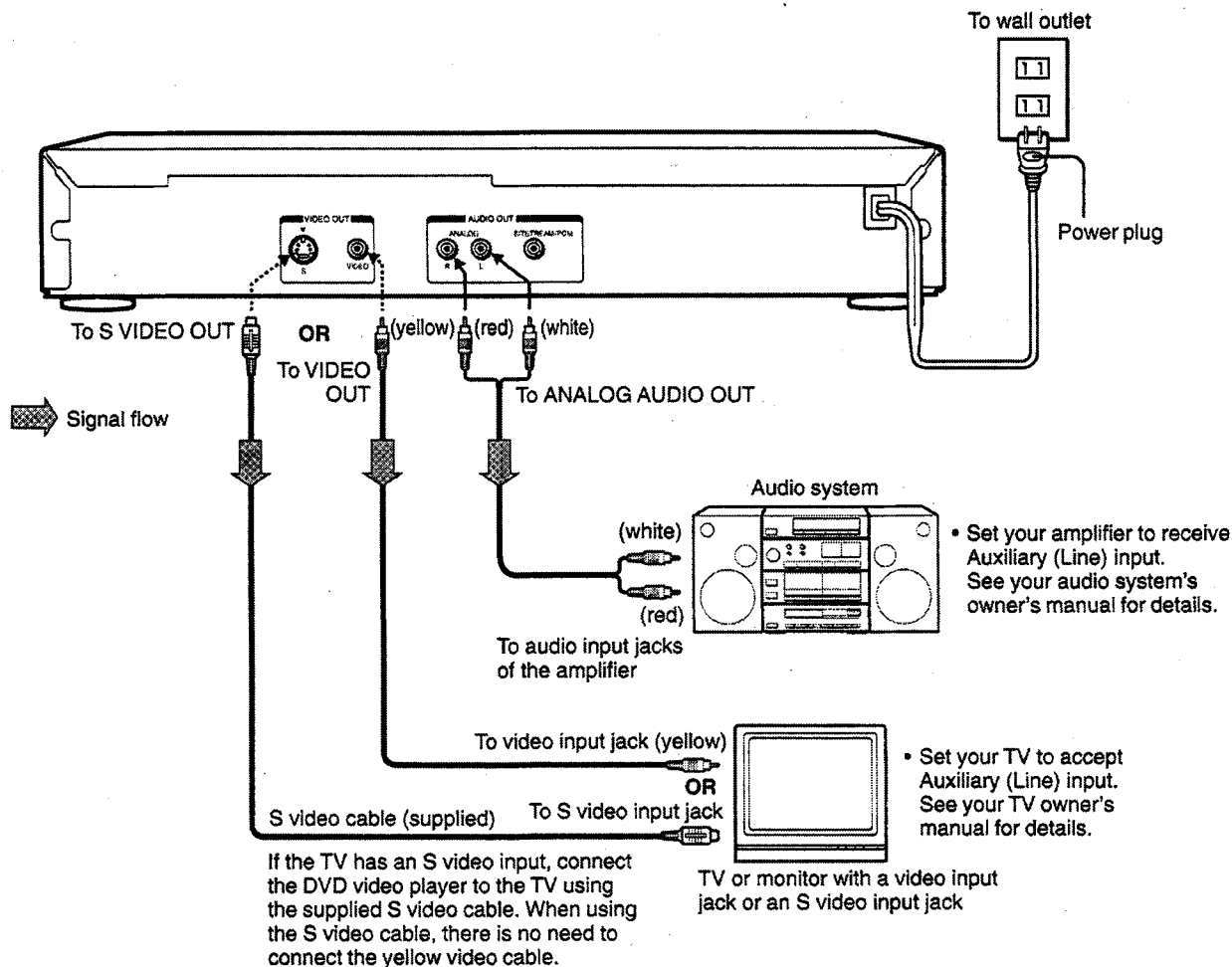
Connecting to an Audio System

You can listen to the sound of the discs in stereo.

Connecting to an Audio System

■ Setting of the sound output

From the on-screen displays, set "AUDIO OUT SEL." to "ANALOG." 29 31



Notes

- Refer to the owner's manual of the connected equipment (TV, audio system) as well.
- When you connect the DVD video player to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.
- If you place the DVD video player near a tuner or radio, the radio broadcast sound might be distorted. In this case, place the DVD video player away from the tuner and radio.
- The output sound of the DVD video player has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.
- Turn off the amplifier before you connect or disconnect the DVD video player's power cord. If you leave the amplifier power on, the speakers may be damaged.

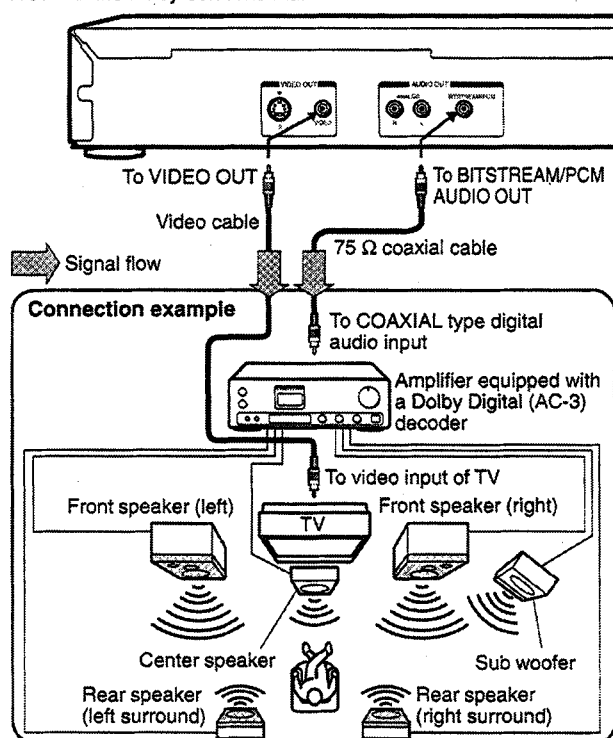
Connecting to Optional Equipment

You can enjoy the high quality dynamic sound of Dolby Digital (AC-3), Digital Theater Systems (DTS), Dolby Pro Logic, and Two-Channel Digital Stereo.

Enjoying Dolby Digital (AC-3) Sound

Dolby Digital (AC-3)

Dolby Digital is the surround sound technology used in movie theaters; it is now available in the home. You can enjoy motion picture and live concert DVD video discs with this dynamic realistic sound by connecting the DVD video player to a six-channel amplifier equipped with a Dolby Digital (AC-3) decoder or Dolby Digital (AC-3) processor. If you have a Dolby Pro Logic Surround decoder, you will obtain the full benefit of Pro Logic from the same DVD movies that provide full 5.1-channel Dolby Digital soundtracks, as well as from titles with the Dolby Surround mark.



Setting of the sound output

- From the on-screen displays, set "AUDIO OUT SEL." to "BITSTREAM." [29] [31]
- Select "AC-3" from the sound recording systems of the disc. [26]

Use DVD video discs recorded on the Dolby Digital (AC-3) recording system.

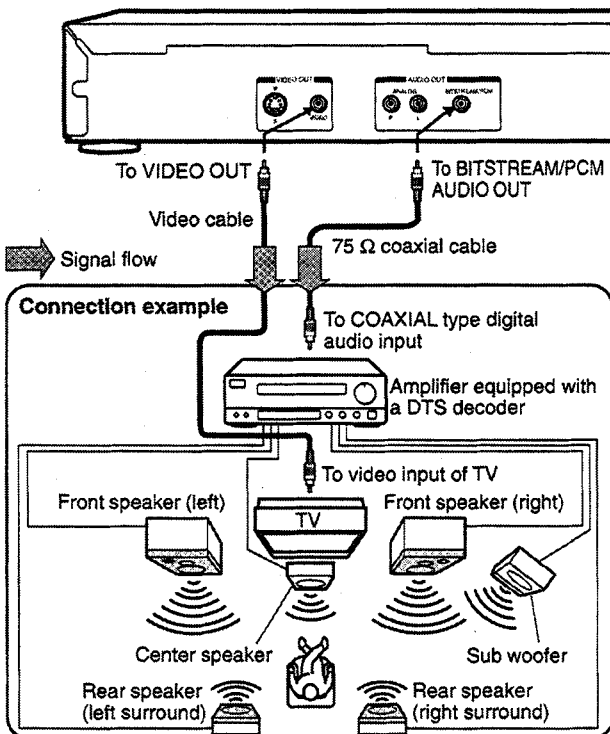
Manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby," "AC-3," "Pro Logic," and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Enjoying Digital Theater Systems (DTS) Sound

Digital Theater Systems (DTS)

DTS is a high quality surround technology used in theaters and now available for home use, on DVD video discs.

If you have a DTS decoder or processor, you can obtain the full benefit of 5.1 channel DTS encoded sound tracks.



Setting of the sound output

- From the on-screen displays, set "AUDIO OUT SEL." to "BITSTREAM." [29] [31]
- Select "DTS" from the sound recording systems of the disc. [26]

Use DVD video discs recorded on the DTS recording system.

"DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.

Notes

- DO NOT connect the BITSTREAM/PCM AUDIO OUT jack of the DVD video player to the AC-3 RF input of a Dolby Digital Receiver. This input on your A/V Receiver is reserved for Laserdisc use only and is incompatible with the BITSTREAM/PCM AUDIO OUT jack of the DVD video player.
- Connect the BITSTREAM/PCM AUDIO OUT jack of the DVD video player to the "DIGITAL" or "COAXIAL" input of a Dolby Digital Receiver or Processor.
- Refer to the owner's manual of the connected equipment as well.
- When you connect the DVD video player to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.
- The output sound of the DVD video player has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.
- Turn off the amplifier before you connect or disconnect the DVD video player's power cord. If you leave the amplifier power on, the speakers may be damaged.

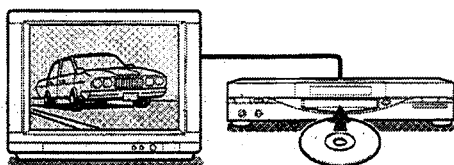
- Do not set "AUDIO OUT SEL." to "BITSTREAM" via the on-screen displays **29** **31** unless you are connecting (via the BITSTREAM/PCM AUDIO OUT jack) an AV decoder that has the Dolby Digital (AC-3) or Digital Theater Systems (DTS) decoding function. High volume sound may damage your hearing as well as the speakers.
- When playing DTS-encoded discs (audio CDs), excessive noise may be exhibited from the analog stereo jacks. To avoid possible damage to the audio system, you should take proper precautions when the ANALOG AUDIO OUT jacks of the DVD video player is connected to an amplification system. To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the BITSTREAM/PCM AUDIO OUT jack of the DVD video player.

■ Set “AUDIO OUT SEL.” to “ANALOG” via the on-screen displays.  

■ Set “AUDIO OUT SEL.” to “PCM” via the on-screen displays. **[29]** **[31]**

141

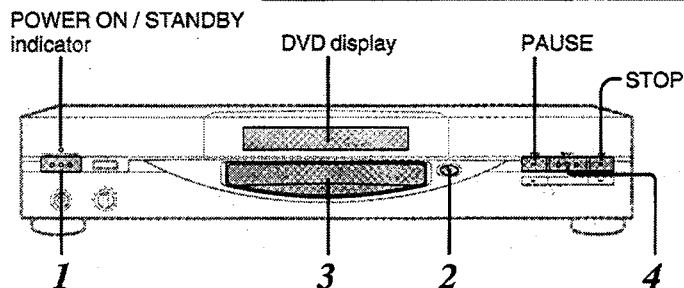
Playing a Disc



This section shows you how to play a disc.

CAUTION



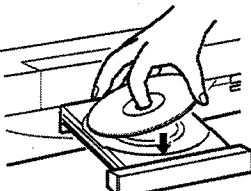

Keep your fingers well clear of the disc tray as it is closing. It may cause serious personal injury.




Basic Playback

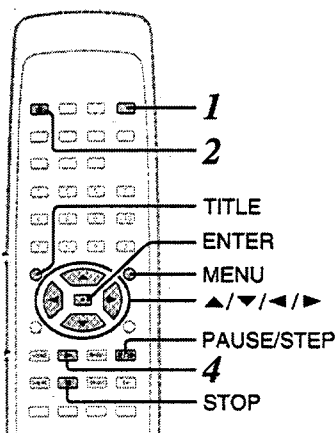
■ Preparations

- When you want to play DVD video discs or VIDEO CDs, turn on the TV and put the TV in Auxiliary (Line) input mode.
- When you want to enjoy the sound of a disc from the audio system, turn on the audio system and set the amplifier to receive Auxiliary input.
- For connection details, see "Connections." [11] - [14]
- Set the playback picture size according to the picture tube shape or aspect ratio of the connected TV via the on-screen displays. [29] [35]

1 POWER 	Press POWER. The DVD video player turns on and the POWER ON / STANDBY indicator on the player lights.	
2 OPEN/CLOSE 	Press OPEN/CLOSE. The disc tray opens.	
3	Place the disc in the disc tray.  With the label facing up	<div data-bbox="1268 1094 1360 1129" data-label="Section-Header"> Notes </div> <ul style="list-style-type: none"> • There are two different disc sizes. Place the disc in the correct guide in the disc tray. If the disc is out of the guide, it may damage the disc and cause the DVD video player to malfunction. • Do not place anything except DVD video discs, VIDEO CDs, or audio CDs in the disc tray.
4 PLAY 	Press PLAY. The disc tray closes and playback starts. If you insert a DVD video disc that contains a title menu, or insert a PBC (Playback Control)-controllable VIDEO CD, a menu screen may appear. See "To start playback from the menu screen." [16] To start playback of a PBC-controllable VIDEO CD from the menu screen, set "PBC" to "ON" via the on-screen displays. [29] [34]	<div data-bbox="1268 1396 1360 1432" data-label="Section-Header"> Notes </div> <ul style="list-style-type: none"> • For PBC (Playback Control) of VIDEO CDs, see "On VIDEO CD." [40] • You may need to press the TITLE or MENU button on the remote control to display the menu screen, depending on the disc.

Notes

- Do not move the DVD video player during playback. Doing so may damage the disc.
- Use the OPEN/CLOSE button on the remote control or the  button on the DVD video player to open and close the disc tray. Do not push the disc tray while it is moving. Doing so may cause the DVD video player to malfunction.
- Do not push up on the disc tray or put any objects other than discs on the disc tray. Doing so may cause the DVD video player to malfunction.



■ To obtain a higher quality picture

Occasionally, some picture noise may appear on the TV screen while playing a DVD video disc because the high resolution pictures on these discs include a lot of information. While the amount of noise depends on the TV, you should reduce the sharpness adjustment on your TV from the position you usually set for normal broadcasts.

■ About DVD VCD CD

The DVD VCD CD symbols on the heading bar in this manual show the playable discs for the function described under that heading.

DVD : You can use this function with DVD video discs.

VCD : You can use this function with VIDEO CDs.

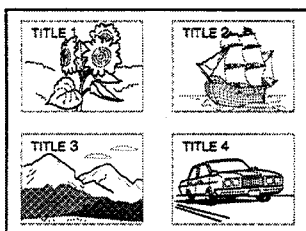
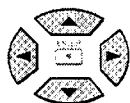
CD : You can use this function with audio CDs.

DVD VCD CD

To start playback from the menu screen

- 1 Press ▲/▼/◀/▶ or the number buttons to select the title you want.

Example



- 2 Press ENTER. (You do not have to press ENTER to start playback if you use the number buttons at step 1.)



The DVD video player starts playback from the selected title.

- When not using the menu screen of a PBC-controllable VIDEO CD, set "PBC" to "OFF" via the on-screen displays. 29 34

To stop playback

STOP



Press STOP.

To pause playback (still playback)

PAUSE/STEP



Press PAUSE/STEP during playback.

To resume normal playback, press the PLAY button.

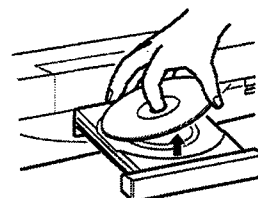
- The sound is muted during still playback.

To remove the disc

OPEN/CLOSE



Press OPEN/CLOSE.



Remove the disc after the disc tray opens completely.

- Be sure to press the OPEN/CLOSE button to close the disc tray after you remove the disc.

Notes

- In many instances, a menu screen will appear after playback of a movie is completed. Prolonged display of an on-screen menu may damage your television set, permanently etching that image onto its screen. To avoid this, be sure to press the STOP button once the movie is completed.
- If you pause a picture and leave it still for a long while, the screen saver of the DVD video player automatically appears. To turn off the screen saver, press the PLAY button.

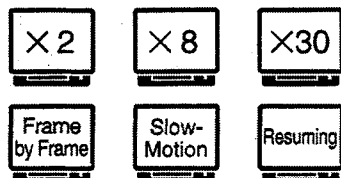
About this owner's manual

This owner's manual explains the basic instructions of this DVD video player. Some DVD video discs are produced in a manner that allows specific or limited operation during playback. As such, the DVD video player may not respond to all operating commands. This is not a defect in the DVD video player. Refer to the instruction notes of discs.

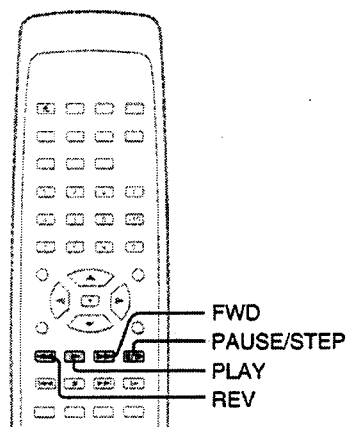
"⏸" may appear on the TV screen during operation. A white "⏸" means that the operation is not permitted by the DVD video player; a red "⏸" means the operation is not permitted by the disc.

Basic Playback

Playing a Disc (continued)



You can play discs at various speeds and resume playback from the location where you stopped playback.



Playing at Twice, Eight Times, or Thirty Times the Normal Speed

You can play a disc at twice, eight times, or thirty times the normal speed.

Playing Frame by Frame

You can advance a picture frame by frame.

REV

FWD

Press REV or FWD during playback.

- DVD video disc

Each time you press the REV or FWD button, the playback speed changes.

REV: Fast reverse playback
FWD: Fast forward playback

TV screen

x2

↔

x8

↔

x30

Twice the normal speed Eight times the normal speed Thirty times the normal speed

- VIDEO CD/Audio CD

The fast reverse or fast forward playback alternates between two speeds.

TV screen

FR1

↔

FR2

Fast reverse playback

FF1

↔

FF2

Fast forward playback

PAUSE/STEP

Press PAUSE/STEP during playback to begin still playback.

Each time you press the PAUSE/STEP button, the picture advances one frame.

To resume normal playback

PLAY
 Press PLAY.

To resume normal playback

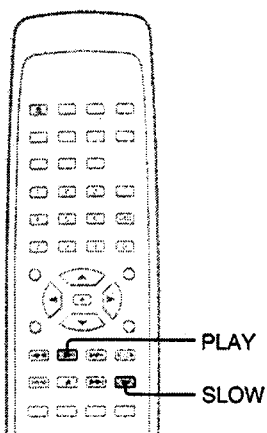
PLAY
 Press PLAY.

Notes

- The DVD video player does not play sound and subtitles during reverse and forward scan of DVD video discs. However, the DVD video player plays sound during fast forward or fast reverse play of audio CDs.
- Twice, eight times, or thirty times the normal playback speeds are only approximate speeds. These speeds may vary slightly from disc to disc.

Note

The sound is muted during frame by frame playback.



Playing in Slow Motion

DVD VCD

You can play a disc in slow motion.

SLOW

Press SLOW during playback.

Each time you press the SLOW button, the slow motion speed changes.

TV screen

1/2

1/2 the normal speed

1/8

1/8 the normal speed

1/16

1/16 the normal speed

To resume normal playback

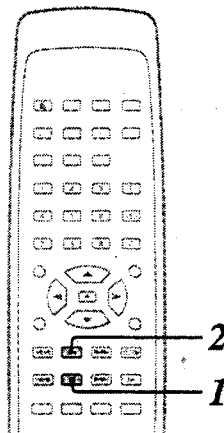
PLAY



Press PLAY.

Note

The sound is muted during slow motion playback.



Resuming Playback from the Same Location

DVD VCD CD

You can stop playback and resume playback later from the same location on the disc.

1 STOP

Press STOP at the location where you want to interrupt playback.

The DVD video player memorizes the location where you stopped playback.

2 PLAY

Press PLAY.

The DVD video player resumes playback from the location where you stopped playback.

To start playback from the beginning regardless of the location where you stopped playback

1 Press STOP twice.

STOP



The DVD video player's memory is cleared.

2 Press PLAY.

PLAY



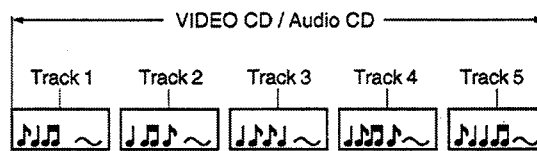
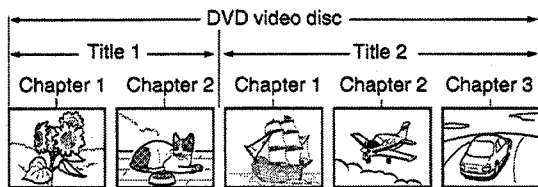
If you are using a DVD video disc, playback starts from the beginning of the current title. If you are using a VIDEO CD or an audio CD, playback starts from the beginning of the disc.

- If you want to return to the beginning of a DVD video disc, open and close the disc tray once with the OPEN/CLOSE button before pressing the PLAY button.

Notes

- The DVD video player's memory is also cleared when:
 - you unplug the DVD video player from the wall outlet after you stop playback.
 - you open the disc tray.
 - you adjust/change parental lock [37] or select a disc menu language setting [36].
- There may be a difference of the location where playback resumes depending on the disc.
- If you change the initial settings of languages [31] or subtitle languages [36] while the DVD video player is stopped, these new settings will function only after the DVD video player's memory is cleared.

Locating a Specific Title, Chapter, or Track



Normally, DVD video discs are divided into titles, and the titles are sub-divided into chapters. VIDEO CDs and audio CDs are divided into tracks. You can quickly locate any specific title, chapter, or track.

Locating a Title Using the Title Menu

If a DVD video disc contains a title menu, you can locate a specific title using the title menu.

Locating a Title

You can locate a specific title by entering a title number.

1

TITLE

Press TITLE.

The title menu appears on the TV screen.

Example of a title menu

DVD

2

Press ▲/▼/◀/▶ to select the title you want.

If the titles in the title menu are assigned a number, you can directly locate a specific title by choosing its assigned number with the **number buttons**.

3

Press ENTER.

The DVD video player starts playback from chapter 1 of the selected title.

(You may not need to press ENTER if you use the number buttons at step 2.)

1

T

Press T.

Make sure that the space next to TITLE is highlighted.

Example

TITLE: **1**
 CHAPTER: 1

DVD

2

Press the corresponding number buttons for the title you want.

Example: To select title 2, press

2

TITLE: **2**
 CHAPTER: 1

To select title 12, press

1

→

2

OR

+10

→

2

TITLE: **12**
 CHAPTER: 1

3

PLAY

Press PLAY.

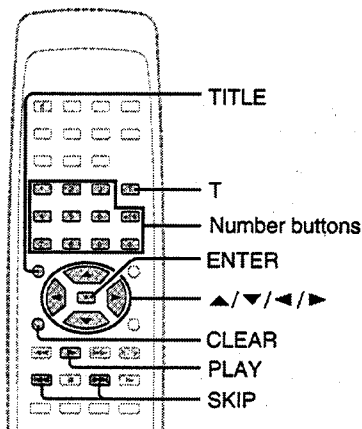
The DVD video player starts playback from chapter 1 of the selected title.

Notes

- The instructions above describe the basic procedure. The procedure varies depending on the contents of the DVD video disc. If different instructions appear on the TV screen, follow those instructions.
- If you display the title menu during playback and press the TITLE button again without selecting any title, the DVD video player may resume playback from the point where you first pressed the TITLE button. If it does not, press the PLAY button to resume playback.

Notes

- Some DVD video discs may have chapters, but no titles.
- You can shift the highlight between TITLE and CHAPTER by pressing the ▲/▼ buttons.
- Pressing the CLEAR button resets the TITLE and CHAPTER numbers. To clear the TITLE and CHAPTER display, press the T button repeatedly.
- You can select a preferred language for on-screen displays. 29 35



Locating a Specific Chapter or Track Directly

If you know the chapter or track number you want to play, you can locate it directly.

- 1** **Press T.**
 Skip steps 1 and 2 if you are using a VIDEO CD or an audio CD.
 (DVD video disc) TITLE: 1
CHAPTER: 1
- 2** **Press ▼ to highlight the space next to CHAPTER.**
 (DVD video disc) TITLE: 1
CHAPTER: 1
- 3** **Press the corresponding number buttons of the chapter or track you want.**
 You can use the button to select numbers from 10 through 99.
 Example: To select chapter or track 25, press
 (DVD video disc) TITLE: 1
CHAPTER: 25 (VIDEO CD/ Audio CD) TRACK: 25
- 4** **Press PLAY.**
 The DVD video player starts playback from the selected chapter or track.

To select a title and chapter number at the same time

Example: To select chapter 25 in title 2, press

→ → → → →
Title number Chapter number

TITLE: 2
CHAPTER: 25

Note

Pressing the CLEAR button resets the TITLE and CHAPTER numbers. To clear the TITLE and CHAPTER display, press the T button repeatedly.

Locating a Specific Chapter or Track

You can fast forward or reverse through consecutive chapters or tracks.

SKIP or **SKIP** (**PREVI** or **NEXT** on the DVD video player) repeatedly to advance or reverse to the chapter or track number you want.

The DVD video player starts playback from the selected chapter or track.

◀◀: To locate preceding chapters or tracks
 When you press the **◀◀** button, the DVD video player starts playback from the beginning of the current chapter or track. When you press the **◀◀** button twice, the DVD video player starts playback from the beginning of the preceding chapter or track.

▶▶: To locate succeeding chapters or tracks

Note

Some titles may not display chapter numbers.

Locating a Specific Location on the Disc

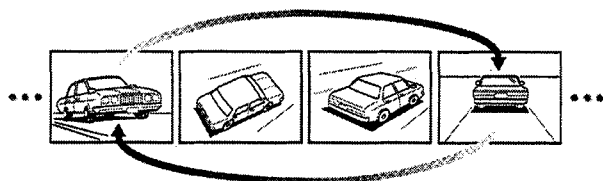
You can locate a specific location by entering the time (hours, minutes, seconds).

- 1** **Press T twice.**
 You may have to press further depending on the disc. Press the button repeatedly until the following indication appears.
TIME 00:00
- 2** **Press the number buttons to enter the time.**
 Example
1 → 2 → 5 → 3 → 0
 (One hour, 25 minutes, 30 seconds) TIME 1:25:30
- 3** **Press PLAY.**
 The DVD video player starts playback from the specified location.

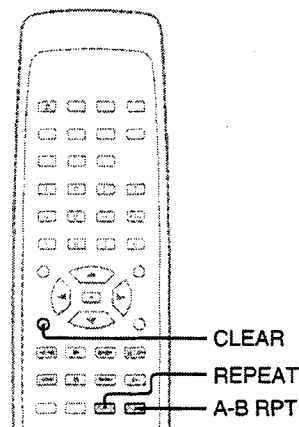
Notes

- Some discs may not respond to this feature.
- Some scenes may not be located correctly as you specified.
- This locating is available only within the current title of the DVD video disc or within the current track of the VIDEO CD/audio CD.

Playing Repeatedly



You can play a specific title, chapter, track, or segment repeatedly.
(Title repeat, chapter/track repeat, A-B repeat)



Repeating a Title, Chapter, or Track

You can play the same title, chapter, or track repeatedly.
(Title, chapter/track repeat)

1

Begin playback of the title, chapter, or track you want to repeat. [19] [20]

2

REPEAT

Press REPEAT.

Each time you press the REPEAT button, the repeat mode changes as follows.

- DVD video disc

CHAPTER REPEAT	Repeats the same chapter.
↓	
TITLE REPEAT	Repeats the same title.
↓	
REPEAT OFF	Resumes normal playback.
- VIDEO CD / Audio CD

TRACK REPEAT	Repeats the same track.
↓	
ALL REPEAT	Repeats the entire disc.
↓	
REPEAT OFF	Resumes normal playback.

To resume normal playback

CLEAR

Press CLEAR.

Note

Some discs may not respond to the repeat function.

Repeating a Specific Segment

You can play a specific segment repeatedly. (A-B repeat)

1

A-B RPT

During playback, press A-B RPT at the beginning of the segment (point A) you want to play repeatedly.

A-

2

A-B RPT

Press A-B RPT again at the end of the segment (point B).

A-B

The DVD video player automatically returns to point A and starts repeat playback of the selected segment (A-B).

To resume normal playback

CLEAR

Press CLEAR.

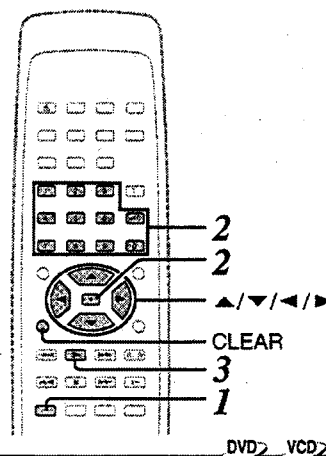
Notes

- Some discs may not respond to the A-B repeat function.
- You cannot set the A-B repeat function for a segment that includes multiple camera angles.
- You can specify a segment only within the current title.
- There may be a slight difference between point A and the location where playback actually resumes, depending on the disc.

Playing in a Favorite Order



You can combine your favorite titles, chapters, or tracks and play them in any order. You can program up to 30 items into the memory. (Memory playback)



Setting Titles, Chapters, or Tracks in a Favorite Order

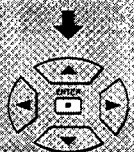
The DVD video player automatically plays titles, chapters, or tracks in the order you program.

1 **MEMORY** While playback is stopped, insert a disc and press **MEMORY**. The following menu appears.

MEMORY		SELECT
1	T 0 2 C 2 5	
2	T -- C --	
3	T -- C --	
4	T -- C --	
5	T -- C --	
6	T -- C --	
7	T -- C --	
8	T -- C --	
9	T -- C --	
10	T -- C --	

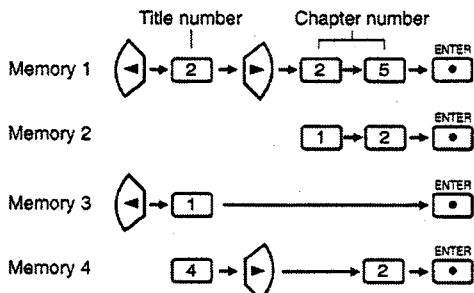
T: Title number
 C: Chapter number

2 Enter the items you want, in order, by pressing the number buttons, then **ENTER** for each item.



Each time you press the **ENTER** button, the -- indication next to T and C is highlighted in turn. Highlight the indication -- next to T (to select a title) or C (to select a chapter), then press the number buttons.

Example: To play chapter 25 in title 2, chapter 12 in title 2, all the chapters in title 1, and chapter 2 in title 4.



To select tracks from a VIDEO CD/audio CD in order, press the number buttons for the track, then press the **ENTER** button for each item you want.

MEMORY		SELECT
1	T 0 2 C 2 5	
2	T 0 2 C 1 2	
3	T 0 1 C --	
4	T 0 4 C 0 2	
5	T -- C --	
6	T -- C --	
7	T -- C --	
8	T -- C --	
9	T -- C --	
10	T -- C --	

PRESS [0] - [9]
 EXIT RETURN ENTER SET

To select another chapter in the same title, you do not need to select the title number.

3 **PLAY** Press **PLAY** while the **MEMORY** menu appears on the TV screen.

The DVD video player starts memory playback.

To change the programmed items

- While the **MEMORY** menu appears on the TV screen, press **▲/▼** to move the highlighted bar to the item you want to change.
- Change the item following the instructions at step 2.

To cancel the programmed items

- While the **MEMORY** menu appears on the TV screen, press **▲/▼** to move the highlighted bar to the item you want to cancel.
- Press the **CLEAR** button.

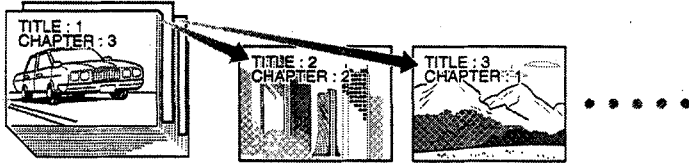
To resume normal playback from memory playback

CLEAR Press **CLEAR**. The **MEMORY** indicator disappears.

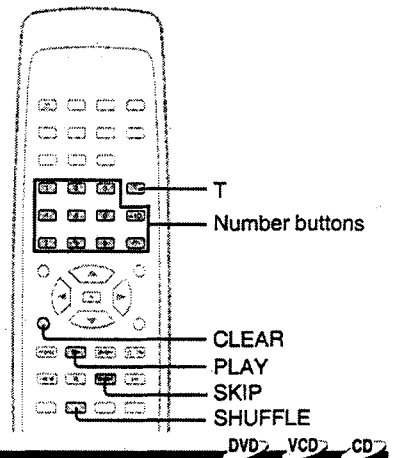
Notes

- Some discs may not respond to the memory playback function.
- If you press the **REPEAT** button during memory playback, the DVD video player repeats the current memory playback.
- If you press the **MEMORY** button during memory playback, the programmed items will be displayed.
- You cannot select title, chapter, and track numbers not included on the disc.
- If you press the **MEMORY** or **RETURN** button while the **MEMORY** menu appears on the TV screen, the **MEMORY** menu disappears.
- The programmed items will be cleared when:
 - you turn off the DVD video player, or
 - you remove the disc.

Playing in Random Order



You can play titles, chapters within a title, or tracks in random order.
(Random playback)



Playing Titles in Random Order

The DVD video player automatically selects the titles in a DVD video disc and plays them randomly.

1 **SHUFFLE**

Press SHUFFLE twice while playback is stopped.

TITLE SHUFFLE

If you press the SHUFFLE button during playback, the DVD video player automatically starts random playback after finishing the current title.

2 **PLAY**

Press PLAY.

The DVD video player starts random playback.

Press the PLAY button within about five seconds after you press the SHUFFLE button.

To resume normal playback

CLEAR
 Press CLEAR.

Notes

- Some discs may not respond to the random playback function.
- You cannot use the random playback function and the memory playback function at the same time.

Playing Chapters or Tracks in Random Order

The DVD video player automatically selects chapters within a title, or tracks on a VIDEO CD/audio CD, and plays them randomly.

1

Press T, then press the appropriate number buttons for the title which contains the chapters you want to play in random order.

Skip this step if you are using a VIDEO CD/ audio CD.

Example: To play the chapters in title 2 in random order, press

(DVD video disc)

T

→

2

TITLE: 2
CHAPTER: 1

2 **SHUFFLE**

Press SHUFFLE while playback is stopped.

(DVD video disc)

CHAPTER SHUFFLE
TITLE: 2
CHAPTER: 1

(VIDEO CD / Audio CD)

TRACK SHUFFLE
TRACK: 1

If you press the SHUFFLE button during playback, the DVD video player automatically starts random playback after finishing the current chapter or track.

3 **PLAY**

Press PLAY.

The DVD video player starts random playback.

Press the PLAY button within about five seconds after you press the SHUFFLE button.

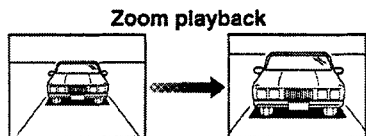
To resume normal playback

CLEAR
 Press CLEAR.

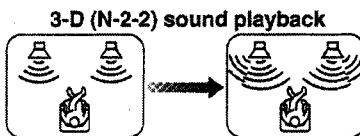
Notes

- Some discs may not respond to the random playback function.
- You cannot use the random playback function and the memory playback function at the same time.
- If you press the SKIP button during random playback, the DVD video player goes to another chapter or track and starts random playback.

Zooming a Picture/ Playing 3-D (N-2-2) Sound



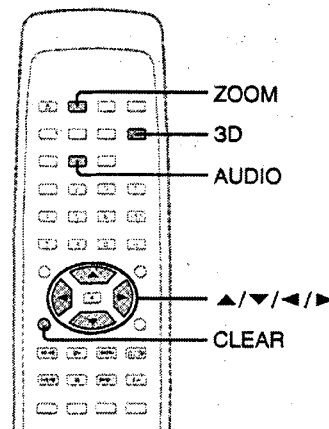
Zoom playback



3-D (N-2-2) sound playback

You can magnify areas within a picture. (Zoom playback)

You can enjoy virtual surround sound. (3-D (N-2-2) sound playback)



Zooming a Picture

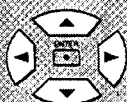
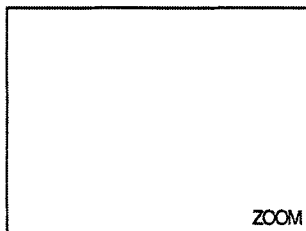
You can zoom a picture. You can shift the zooming point as well.

ZOOM



Press **ZOOM** during normal, slow or still playback.

The DVD video player magnifies the center of the picture.



If you press **▲/▼/◀/▶** during zoom playback, the zoom point shifts. If the zoom point reaches the limit, the color of "ZOOM" changes.

If you press the **CLEAR** button, the zoom point returns to the center of the picture.

To resume normal playback

ZOOM



Press **ZOOM** during zoom playback.

Notes

- Some discs may not respond to zoom feature.
- During some scenes, the buttons may not work correctly as described above.
- Zooming does not work on subtitles or menu screens included on DVD video discs.
- During zoom playback, the **▲/▼/◀/▶** buttons cannot work on menu screens included on the DVD video discs. If you want to use the menu screens, cancel the zoom playback.

Selecting 3-D (N-2-2) Sound Enhancement

You can enjoy expansive surround type effects from two speakers.

1

AUDIO



During playback, press **AUDIO** repeatedly until **AC-3** appears on the screen.

AUDIO 1 ENG AC-3 6CH

Recording system

For details, see **26**.

If AC-3 does not appear, the DVD video disc may not be recorded on the Dolby Digital (AC-3) recording system. On such a disc, the 3-D (N-2-2) sound enhancement cannot work.

2

3D/
LAST PLAY



Press **3D**.

The current setting appears.

3D (N-2-2) OFF

3

3D/
LAST PLAY



Press **3D** to select **ON**.

Each time you press the button, **ON** and **OFF** alternates.

3D (N-2-2) ON

To turn off the 3-D (N-2-2) effect

3D/
LAST PLAY



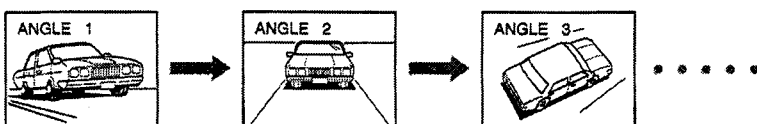
At step 3, Press **3D** to select **OFF**.

Notes

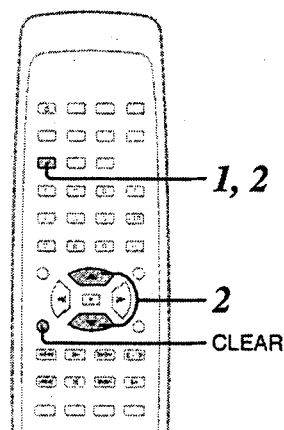
- The effect of 3-D (N-2-2) sound enhancement cannot be fully realized through headphones.
- You may sense a difference in volume between normal and 3-D enhanced sound.

Spatializer® 3-Dimensional Sound Processing provided by Desper Products, Inc. Certain audio features of this product manufactured under a license from Desper Products, Inc., Spatializer® and the circle-in-square device are trademarks owned by Desper Products, Inc.

Selecting the Camera Angle




A preferred angle can be selected from several angles.

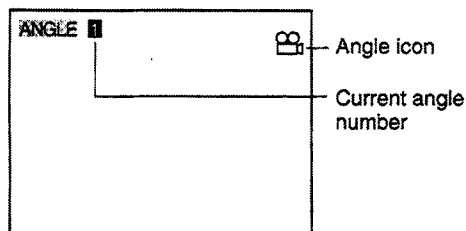


Changing the Camera Angle

If the scene was recorded from multiple angles, you can easily change the camera angle of the scene you are watching.

1 Press ANGLE while playing a scene recorded with multiple angles.



While playing a scene recorded with multiple angles, the angle icon () appears in the DVD display and on the TV screen. Press the ANGLE button while the angle icon is on.



To turn off the angle number indication

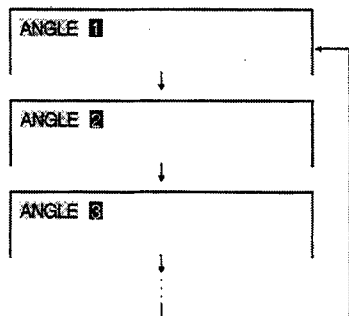
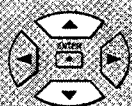
CLEAR  Press **CLEAR**.

To disable the angle icon display on the TV

From the on-screen displays, set "OSD" to "OFF."   Monitor the DVD display when you want to change the camera angle.

2 Press ANGLE or ▲ while the angle number appears on the TV screen.

Each time you press the ANGLE or ▲ button, the camera angle changes.



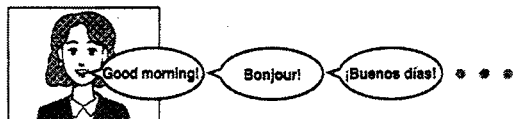
▼ : Cycles backward

You can change the camera angle directly by pressing the number buttons for the angle number.

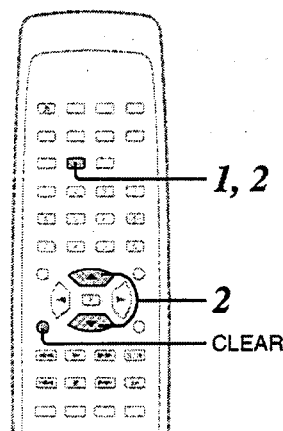
Notes

- You can change the camera angle during still playback. The camera angle changes to the new setting when you resume normal playback.
- If you pause a picture immediately after changing the camera angle, the resumed playback picture may not use the new camera angle.

Selecting a Language



You can select a preferred language.



Selecting a Playback Audio Setting

You can easily select a preferred language and sound recording system from those included on the DVD video disc.

1

AUDIO

Press AUDIO during playback.

The current audio setting appears for about three seconds.

AUDIO 1
ENG
PCM
2CH

Position number
Language
Recording system
Audio channel

The abbreviation of the language appears instead of the language name. Refer to the list of languages and their abbreviations. **[39]**

2

AUDIO

Press AUDIO or ▲ while the audio setting appears on the TV screen.

Each time you press the AUDIO or ▲ button, the audio settings included on the DVD video disc change.

Example

AUDIO 1
ENG
PCM
2CH

Position number
Language
Recording system
Audio channel

AUDIO 2
FRE
AC-3
6CH

Position number
Language
Recording system
Audio channel

AUDIO 3
SPA
PCM
2CH

Position number
Language
Recording system
Audio channel

▼ : Cycles backward

About recording systems

This DVD video player uses the Dolby Digital (AC-3), DTS, and PCM recording systems and cannot play DVD video discs recorded in any other recording system.

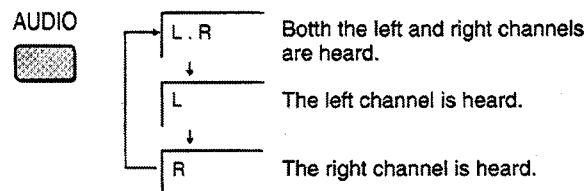
AC-3 5.1 Channel is displayed as "AC-3 6CH."

Note: Total channels available in AC-3 may vary from 1 – 6.

Selecting sound channels of VIDEO CDs

A VIDEO CD may have left and right sound channels and contain sounds or languages on each. You can switch these two channels to hear a preferred sound or language.

During playback, press **AUDIO** repeatedly to select the sound channel.



Notes

- Some discs allow you to change audio selections only via the disc menu. If this is the case, press the MENU button and choose the appropriate language from the selections on the disc menu.
 - When you turn on the DVD video player or replace a disc, the player returns to the initial default setting. **[31]**
- When you select a sound which is not included on the disc, the DVD video player plays a prior sound programmed on the disc.

To turn off the audio setting indication

CLEAR



Press CLEAR.

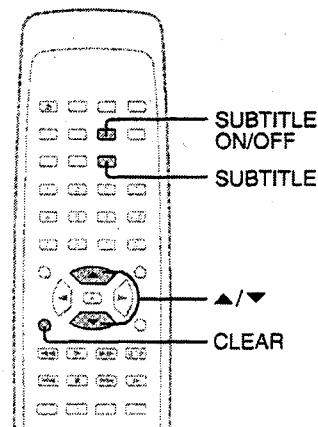
Output sound format (sampling frequency/quantization bit)

Discs	Sound recording system	Audio selection from the menu screen [29] [31] and output jacks on the rear panel					
		ANALOG		BITSTREAM		PCM	
		BITSTREAM/PCM jack	ANALOG jacks	BITSTREAM/PCM jack	ANALOG jacks	BITSTREAM/PCM jack	ANALOG jacks
DVD video discs	Dolby Digital	Bitstream	48 kHz/16 bit	Bitstream	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
	Linear PCM	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
		48 kHz/20 bit	—	48 kHz/20 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
		48 kHz/24 bit	—	48 kHz/24 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
		96 kHz/16 bit	—	96 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
		96 kHz/20 bit	—	96 kHz/20 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
		96 kHz/24 bit	—	96 kHz/24 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
	DTS	Bitstream	—	Bitstream	—	—	—
VIDEO CDs	MPEG1	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit
Audio CDs	Linear PCM 44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit

Selecting Subtitles



You can display subtitles on the TV screen and select a preferred subtitle language.



Displaying Subtitles

You can display subtitles from those included on the DVD video disc.

Press SUBTITLE ON/OFF during playback.

The current subtitle setting appears for about three seconds.

SUBTITLE 1 ENG ON

Good evening! — Subtitles

To turn off the subtitles

Press SUBTITLE ON/OFF.

The subtitles disappear.

SUBTITLE 1 ENG OFF

Appears about for three seconds.

Notes

- Some DVD video discs are set to display subtitles automatically, and you cannot turn them off even if you set the subtitle function to off.
- During some scenes, the subtitles may not appear immediately after you select ON.
- Some DVD video discs will allow you to make subtitle selections and turn subtitles on or off only via the disc menu.

Selecting a Subtitle Language

You can easily select the subtitle language from those included on the DVD video disc.

1 Press SUBTITLE during playback.

The current subtitle setting appears for about three seconds.

SUBTITLE 1 ENG ON
 Language
 Position number

The abbreviation of the language appears instead of the language name. Refer to the list of languages and their abbreviations. [39](#)

2 Press SUBTITLE or ▲ while the subtitle setting appears on the TV screen.

Each time you press the SUBTITLE or ▲ button, the subtitle languages included on the DVD video disc change.

Example

SUBTITLE 1 ENG ON
 ↓
 SUBTITLE 2 FRE ON
 ↓
 SUBTITLE 3 SPA ON

▼ : Cycles backward

To turn off the subtitle setting indicator

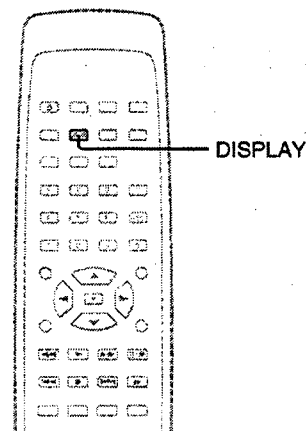
CLEAR

Press CLEAR.

Notes

- When you turn on the DVD video player or replace a disc, the player returns to the initial default setting. [36](#)
- When you select a subtitle language which is not included on the disc, the DVD video player plays a prior language programmed on the disc.
- During some scenes, the subtitles may not appear immediately after you change the subtitle language by pressing the ▲ / ▼ buttons.

Using the On-Screen Display



You can view information about a disc and its operational status on the TV screen.

DVD VCD CD

Checking the Operational Status

You can view the current title number, track number, and total playing time of the disc on the TV screen.

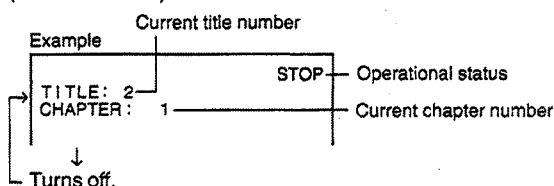
DISPLAY



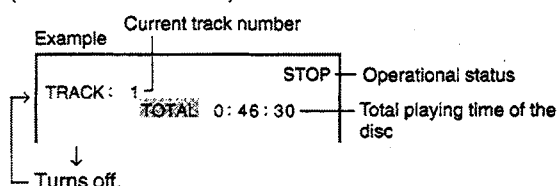
Press DISPLAY while playback is stopped.

Each time you press the DISPLAY button, the on-screen display changes as follows.

(DVD video disc)



(VIDEO CD / Audio CD)



DVD VCD CD

Checking the Remaining Time and Setting Status

You can view the elapsed time, remaining time, and setting status of the disc on the TV screen.

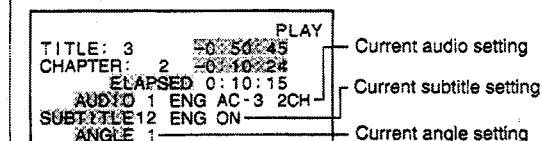
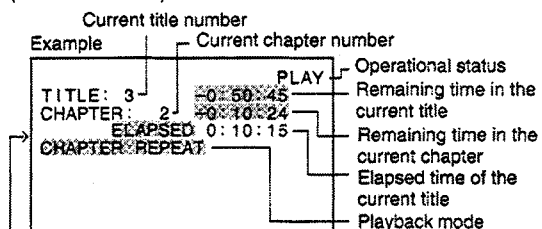
DISPLAY



Press DISPLAY during playback.

Each time you press the DISPLAY button, the on-screen display changes as follows.

(DVD video disc)



The abbreviation of the language (e.g. ENG) appears instead of the language name. Refer to the list of languages and their abbreviations. 39

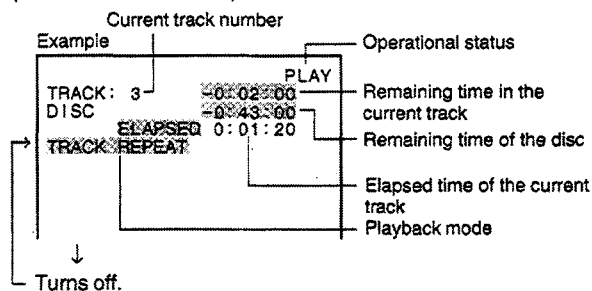
BIT RATE: 3.5M

Data transfer rate (Mbit/s)
= Amount of picture, sound and subtitle data in the DVD video disc transferred per second.

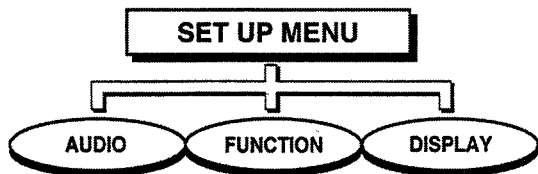
The larger the value is, the more data processed, but this does not necessarily insure better picture quality.

↓ Turns off.

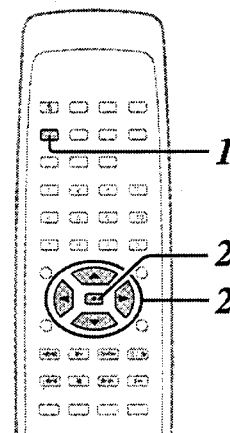
(VIDEO CD / Audio CD)



Customizing the Settings



You can change the default settings to customize performance to your preference.



Displaying the SET UP MENU Screen

The SET UP MENU screen asks you to select a setting for AUDIO, FUNCTION, and DISPLAY. You may adjust the settings in the category using the succeeding screen.

1

SET UP

Press SET UP while playback is stopped.

The SET UP MENU screen appears.

III SET UP MENU SELECT: +
 AUDIO
 FUNCTION
 DISPLAY
 RETURN ENTER
 EXIT SETUP

- The display language can be changed. Proceed to [35], "SCREEN DISPLAYS", via step 2 below.

2

↓

↑

Press ▲ / ▼ to select the category (AUDIO, FUNCTION, or DISPLAY), then press ENTER.

III SET UP MENU SELECT: +
 AUDIO
 FUNCTION
 DISPLAY
 RETURN ENTER
 EXIT SETUP

III SET UP MENU SELECT: +
 AUDIO
 FUNCTION
 DISPLAY
 RETURN ENTER
 EXIT SETUP

III SET UP MENU SELECT: +
 AUDIO
 FUNCTION
 DISPLAY
 RETURN ENTER
 EXIT SETUP

III AUDIO SELECT: +
 LANGUAGE ENG
 AUDIO OUT SEL. ANA
 D RANGE CONTROL ON
 KARAOKE VOCAL OFF
 RETURN ENTER
 EXIT SETUP

III FUNCTION SELECT: +
 BLACK LEVEL NRML
 TITLE STOP OFF
 REMOTE CONFIRM. ON
 OSD ON
 PBC ON
 RETURN ENTER
 EXIT SETUP

III DISPLAY SELECT: +
 SCREEN DISPLAYS ENG
 TV SHAPE 4:3 LB
 SUBTITLE ---
 DISC MENU ENG
 BACK COLOR GRAY
 RETURN ENTER
 EXIT SETUP

Notes

- The SET UP MENU screen disappears when you press the SET UP button.
- The SET UP button can work even during normal playback, however some operations may be inaccessible, a message will appear. In this case, try again after halting playback with the STOP button.

29

AUDIO

Setting	Details	Page
LANGUAGE	To select a preferred language for the sound track.	31
AUDIO OUT SEL.	To select ANALOG, BITSTREAM or PCM according to your connection.	31
D RANGE CONTROL	To turn on or off the function that makes faint sounds easier to hear, even if you lower the volume in late hours playback.	31
KARAOKE VOCAL	To turn on or off the vocal output in DVD KARAOKE disc playback.	32

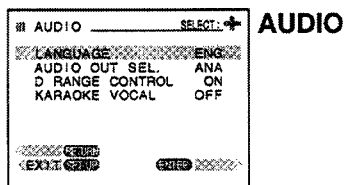
FUNCTION

Setting	Details	Page
BLACK LEVEL	To select the black level (contrast) of playback pictures.	33
TITLE STOP	To turn on or off the function that automatically stops playback after playing one title.	33
REMOTE CONFIRM.	To turn on or off the confirmation beeper for each press of a remote control button.	33
OSD	To turn on or off the operational status display (On-screen display) on the TV screen.	34
PBC	To use the menu screens when playing a PBC-controllable VIDEO CDs.	34

DISPLAY

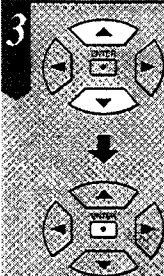
Setting	Details	Page
SCREEN DISPLAYS	To select the display language.	35
TV SHAPE	To select a picture size according to the aspect ratio of your TV.	35
SUBTITLE	To select a preferred language for subtitles.	36
DISC MENU	To select a preferred language for disc menus.	36
BACK COLOR	To select the background color for on-screen displays.	36

Customizing the Settings (continued)



After you select AUDIO on the SET UP MENU screen **29**, adjust the categories to your preference.

Setting the Audio

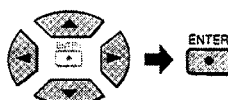
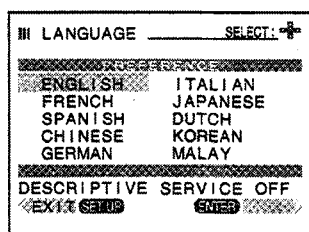


(Continued from page 29.)

Press **▲ / ▼** to select the item, then press **ENTER**.

The setting screen of your selected item appears.

LANGUAGE **DVD**



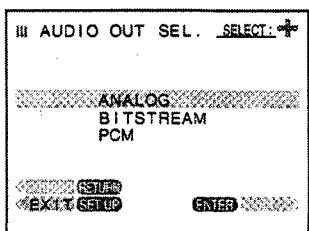
Select a preferred language by pressing **▲ / ▼ / ◀ / ▶**, then press **ENTER**.

You will return to the AUDIO screen.

→ If you do not make any other settings, proceed to step 4.

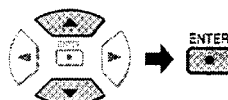
- Some DVD video discs contain special language track that describes the actions on-screen for visually impaired persons. When you set DESCRIPTIVE SERVICE to ON by pressing the AUDIO button, the DVD video player automatically plays this special feature.
- Some DVD video discs may be played in a different language than you selected, since it may be a prior language programmed on the disc.

AUDIO OUT SEL. **DVD VCD CD**



Select the output sound type according to your system connection.

11 12 13 14 26

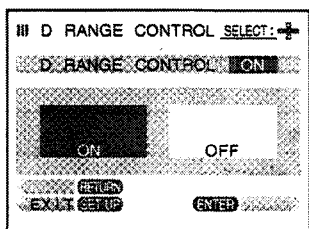


Select the output sound type **ANALOG**, **BITSTREAM** or **PCM** by pressing **▲ / ▼**, then press **ENTER**.

You will return to the AUDIO screen.

→ If you do not make any other settings, proceed to step 4.

D RANGE CONTROL **DVD**



ON: Dynamic range is reduced.

OFF: Full dynamic range is heard.

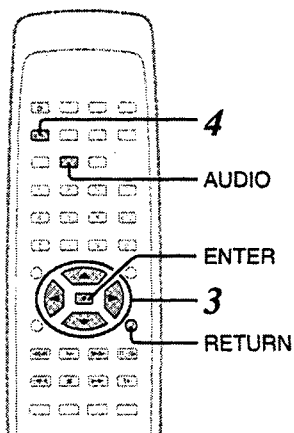


Select **ON** or **OFF** by pressing **◀ / ▶**, then press **ENTER**.

You will return to the AUDIO screen.

→ If you do not make any other settings, proceed to step 4.

- This function works only on playback of Dolby Digital (AC-3) recorded discs.
- The level of dynamic range reduction may differ depending on the DVD video disc.

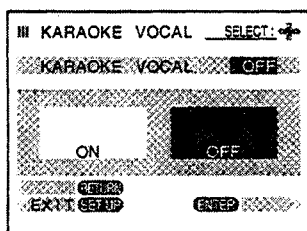


RETURN : If you press the RETURN button while a menu appears on the screen, you will return to the previous menu screen.

DVD VCD CD

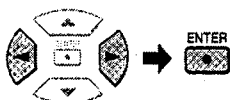
KARAOKE VOCAL

DVD



ON: The primary vocal is output when it is recorded on the disc.

OFF: The primary vocal is not output.



Select ON or OFF by pressing ◀/▶, then press ENTER.

You will return to the AUDIO screen.

→ If you do not make any other settings, proceed to step 4.

The vocal output feature is used during playback of Dolby Digital (AC-3, multi-channel) recorded DVD KARAOKE discs. This feature allows you to turn off vocal audio tracks or restore them for background accompaniment.

4

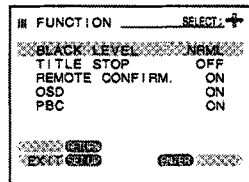
SET UP



Press SET UP.

The SET UP MENU screen disappears.

Customizing the Settings (continued)



FUNCTION

After you select FUNCTION on the SET UP MENU screen **29**, adjust the categories to your preference.

Setting the Functions

3

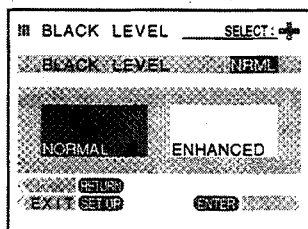


(Continued from page 29.)

Press **▲ / ▼** to select the item, then press **ENTER**.

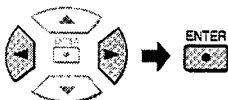
The setting screen of your selected item appears.

BLACK LEVEL DVD VCD



NORMAL: Standard black level (contrast).

ENHANCED: Increased black level (contrast).

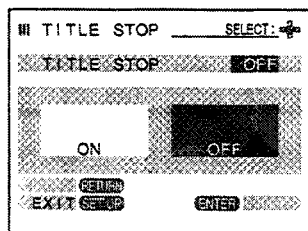


Select a preferred black level by pressing **◀ / ▶**, then press **ENTER**.

You will return to the FUNCTION screen.

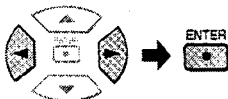
→ If you do not make any other settings, proceed to step 4.

TITLE STOP DVD



ON: Player stops playing the disc after playback of a title is completed.

OFF: Player continues playing the disc after playback of a title is completed.

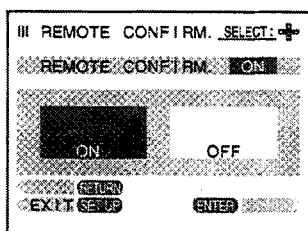


Select **ON** or **OFF** by pressing **◀ / ▶**, then press **ENTER**.

You will return to the FUNCTION screen.

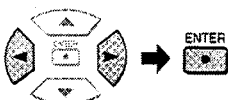
→ If you do not make any other settings, proceed to step 4.

REMOTE CONFIRM. DVD VCD CD



ON: Beeper sounds with each press of a remote control button.

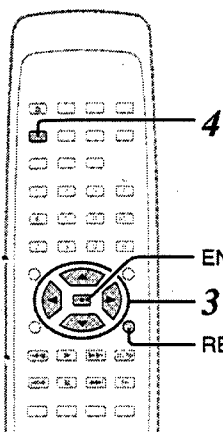
OFF: The beeper does not sound.



Select **ON** or **OFF** by pressing **◀ / ▶**, then press **ENTER**.

You will return to the FUNCTION screen.

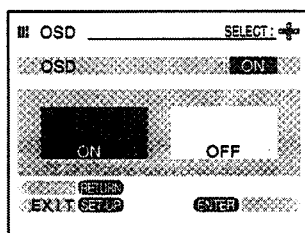
→ If you do not make any other settings, proceed to step 4.




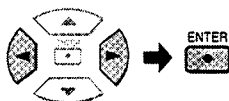
RETURN : If you press the RETURN button while a menu appears on the screen, you will return to the previous menu screen.

DVD VCD CD

OSD DVD VCD CD



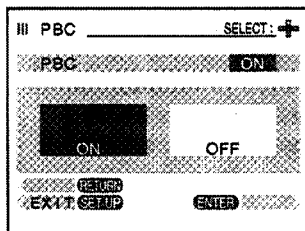
ON: Operational modes are displayed on-screen. (e.g. "PLAY", )
OFF: Operational modes are not displayed.



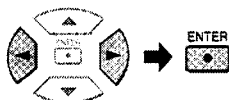
Select ON or OFF by pressing ◀/▶, then press ENTER.

You will return to the FUNCTION screen.
 → If you do not make any other settings, proceed to step 4.

PBC VCD



ON: To use the menu screen when playing a PBC-controllable VIDEO CD.
OFF: When playing without using the menu screen.



Select ON or OFF by pressing ◀/▶, then press ENTER.

You will return to the FUNCTION screen.
 → If you do not make any other settings, proceed to step 4.

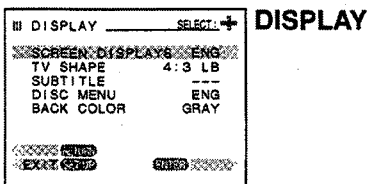
* PBC is the abbreviation of Playback Control.

4 SET UP

Press SET UP.

The SET UP MENU screen disappears.

Customizing the Settings (continued)



After you select DISPLAY on the SET UP MENU screen **29**, adjust the categories to your preference.

Setting the Displays

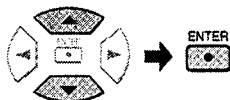
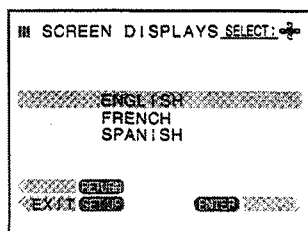
3

(Continued from page 29.)

Press **▲ / ▼** to select the item, then press **ENTER**.

The setting screen of your selected item appears.

SCREEN DISPLAYS DVD VCD CD

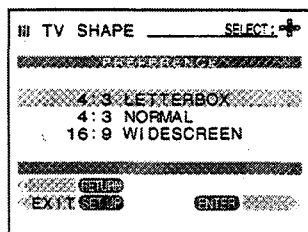


Select a preferred language by pressing **▲ / ▼**, then press **ENTER**.

You will return to the DISPLAY screen.

→ If you do not make any other settings, proceed to step 4.

TV SHAPE DVD



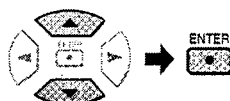
4:3 LETTERBOX: Select when a 4:3 TV is connected. Displays theatrical images with masking bars above and below the picture.



4:3 NORMAL: Select when a 4:3 TV is connected. Displays pictures cropped to fill your TV screen. Either or both sides of the picture are cut off.



16:9 WIDESCREEN: Select when a 16:9 wide TV is connected.

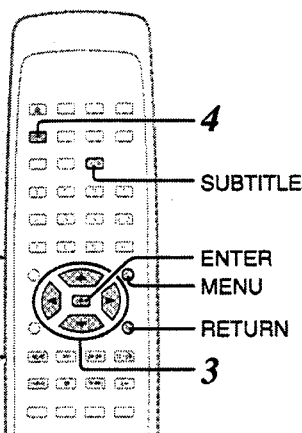


Select your TV type by pressing **▲ / ▼**, then press **ENTER**.

You will return to the DISPLAY screen.

→ If you do not make any other settings, proceed to step 4.

- The displayable picture size is preset on the DVD video disc. Therefore, the playback picture of some DVD video discs may not conform to the picture size you select.
- When you play DVD video discs recorded in the 4:3 picture size only, the playback picture always appears in the 4:3 picture size, regardless of the TV shape setting.
- If you select 16:9 WIDE SCREEN and you own a 4:3 TV set, the DVD playback picture will be horizontally distorted during playback. Images will appear compressed. Always be sure that your TV shape conforms to the actual TV in use.



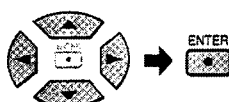
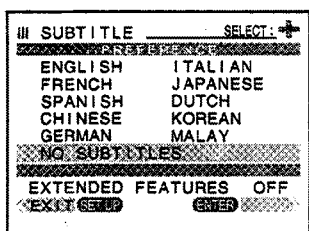
RETURN

: If you press the RETURN button while a menu appears on the screen, you will return to the previous menu screen.

DVD VCD CD

SUBTITLE

DVD



Select a preferred language by pressing **▲/▼/◀/▶**, then press **ENTER**.

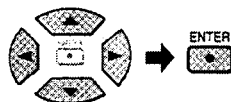
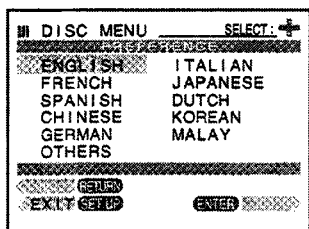
You will return to the DISPLAY screen.

→ If you do not make any other settings, proceed to step 4.

- Some DVD video discs contain special subtitles, an enhancement of closed captioning for hearing impaired persons. When you set EXTENDED FEATURES to "ON" by pressing the SUBTITLE button, the DVD video player automatically displays these special subtitles.
- Some DVD video discs may be set to display subtitles in a different language than you selected, since it may be a prior subtitle language programmed on the disc.
- Some DVD video discs allow you to change subtitle selections only via the disc menu. If this is the case, press the MENU button and choose the appropriate subtitle language from the selection on the disc menu.

DISC MENU

DVD

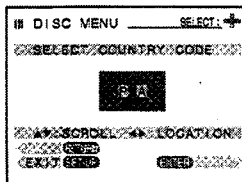


Select a preferred language by pressing **▲/▼/◀/▶**, then press **ENTER**.

You will return to the DISPLAY screen.

→ If you do not make any other settings, proceed to step 4.

■ To select other languages:

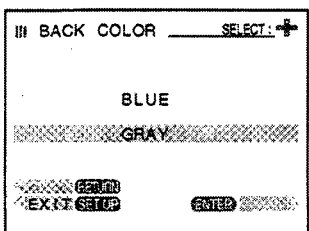


- 1) Select OTHERS and press the ENTER button.
- 2) Obtain the abbreviation of the preferred language from the list **39**.
- 3) Select the first character by pressing the **▲/▼** buttons.
- 4) Press the **◀/▶** buttons to shift and select the second character by pressing the **▲/▼** buttons.
- 5) Press the ENTER button to return to the DISPLAY screen.

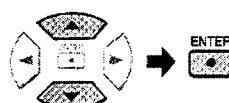
- Some DVD video discs may not include your pre-selected language. In this case, the DVD video player automatically displays disc menus consistent with the disc's initial language setting.

BACK COLOR

DVD VCD CD



BLUE: Blue background.
GRAY: Gray background.



Select a preferred background color by pressing **▲/▼**, then press **ENTER**.

You will return to the DISPLAY screen.

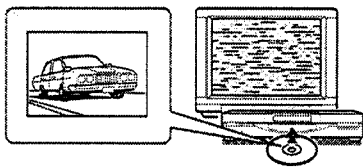
→ If you do not make any other settings, proceed to step 4.

4 SET UP

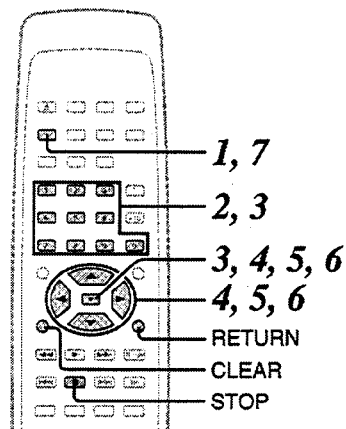
Press SET UP.

The SET UP MENU screen disappears.

Setting the Parental Lock



You can use the parental lock function only with DVD video discs equipped with the parental lock feature.



Setting the Parental Lock

DVD video discs equipped with the parental lock function are rated according to their content. The contents allowed by a parental lock level and the way a DVD video disc can be controlled may vary from disc to disc. For example, you can cut out violent scenes unsuitable for children and replace them with more suitable scenes, or lock out playback of the disc altogether.

1 **SET UP**
 Press **SET UP** during stop.
 The SET UP MENU appears on the TV screen.

2 **9**

9
 Press **9** twice.
 The following menu appears.

III PARENTAL LOCK

RESET SECURITY CODE

0000

PRESS [ENTER] [ENTER]

EXIT SETUP

3 Press the number buttons to create a personal four-digit security code, then press **ENTER**.
 Example

0000

III PARENTAL LOCK SELECT: +

PARENTAL LOCK OFF

ON OFF

USAB

If you make a mistake before pressing the **ENTER** button, press the **CLEAR** button and enter your four-digit security code again.

4 Press **◀/▶** to select "ON," then press **ENTER**.
 The following menu appears.

III PARENTAL LOCK SELECT: +

COUNTRY USA

LEVEL8 LEVEL8

LEVEL8 LEVEL8

EXIT SETUP ENTER

5

 Press **◀/▶** to highlight the country whose standards were used to rate the DVD video disc, then press **ENTER**.
 The following menu appears.

III PARENTAL LOCK SELECT: +

VIEWABLE LEVEL8

LEVEL7

LEVEL6

LEVEL5

LEVEL4

LEVEL3

LEVEL2

LEVEL1

EXIT SETUP ENTER

6

 Press **▲/▼** to highlight the parental lock level, then press **ENTER**.
 You cannot play DVD video discs rated higher than the level you selected unless you cancel the parental lock function.
 For example, when you select level 7, discs rated higher than level 7 are locked out and cannot be played.
 Example: When you select "USA"

III PARENTAL LOCK SELECT: +

LOCKED LEVEL8

VIEWABLE LEVEL7

LEVEL6

LEVEL5

LEVEL4

LEVEL3

LEVEL2

LEVEL1

EXIT SETUP ENTER

When you select "CAN," "CAN7" appears instead.

The parental lock level is equivalent to the following USA movie ratings.

LEVEL 7: NC-17	LEVEL 3: PG
LEVEL 6: R	LEVEL 1: G
LEVEL 4: PG 13	

The parental lock levels for "CAN" (Canada) are included for future use. Check the appropriate parental lock level when you buy a DVD video disc equipped with the parental lock feature in the future.

7 **SET UP**
 Press **SET UP**.
 The SET UP MENU disappears.

RETURN



: If you press the **RETURN** button while a menu appears on the screen, you will return to the previous screen.

DVD

To change the parental lock level

You can change the parental lock level by following the steps in "Setting the Parental Lock."

At step 3, press the **number buttons** to enter your four-digit security code, then continue to step 4.

If you make a mistake, press the **CLEAR** button and enter the correct four-digit security code.

To change your four-digit security code

You can change your four-digit security code.

- 1 Follow steps 1 and 2 in "Setting the Parental Lock."
- 2 Press the **STOP** button four times, then press the **ENTER** button while the security code menu appears on the TV screen.



The four-digit security code is cleared.

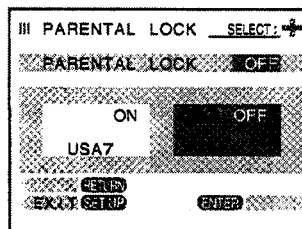
- 3 Press the **number buttons** to create a new four-digit security code, then press the **ENTER** button.
- 4 Complete steps 4 – 7 in "Setting the Parental Lock" if necessary, or, press the **SET UP** button to remove the SET UP MENU.

To cancel the parental lock function

- 1 Follow steps 1 and 2 in "Setting the Parental Lock."
- 2 Press the **number buttons** to enter your four-digit security code, then press the **ENTER** button.

If you make a mistake, press the **CLEAR** button and enter the correct four-digit security code.

- 3 Press **◀/▶** to select "OFF," then press the **ENTER** button.



The SET UP MENU appears again.

- 4 Press the **SET UP** button.

The SET UP MENU disappears, and the parental lock function is canceled.

Note

DVD video discs may or may not respond to the parental lock settings. This is not a defect in the DVD video player. Make sure this function works with your DVD video discs.

Table of Languages

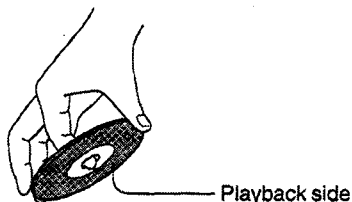
Table of Languages and Their Abbreviations

Abbreviation of the Language	Language	Abbreviation of the Language	Language	Abbreviation of the Language	Language	Abbreviation of the Language	Language
---	No alternate language	EO	Esperanto	LN	Lingala	SL	Slovenian
CHI	Chinese	ET	Estonian	LO	Laotian	SM	Samoan
DUT	Dutch	EU	Basque	LT	Lithuanian	SN	Shona
ENG	English	FA	Persian	LV	Latvian, Lettish	SO	Somali
FRE	French	FI	Finnish	MG	Malagasy	SQ	Albanian
GER	German	FJ	Fiji	MI	Maori	SR	Serbian
ITA	Italian	FO	Faroese	MK	Macedonian	SS	Siswati
JPN	Japanese	FY	Frisian	ML	Malayalam	ST	Sesotho
KOR	Korean	GA	Irish	MN	Mongolian	SU	Sundanese
MAY	Malay	GD	Scottish Gaelic	MO	Moldavian	SV	Swedish
SPA	Spanish	GL	Galician	MR	Marathi	SW	Swahili
AA	Afar	GN	Guarani	MT	Maltese	TA	Tamil
AB	Abkhazian	GU	Gujarati	MY	Burmese	TE	Telugu
AF	Afrikaans	HA	Hausa	NA	Nauru	TG	Tajik
AM	Amharic	HI	Hindi	NE	Nepali	TH	Thai
AR	Arabic	HR	Croatian	NO	Norwegian	TI	Tigrinya
AS	Assamese	HU	Hungarian	OC	Occitan	TK	Turkmen
AY	Aymara	HY	Armenian	OM	(Afan) Oromo	TL	Tagalog
AZ	Azerbaijani	IA	Interlingua	OR	Oriya	TN	Setswana
BA	Bashkir	IE	Interlingue	PA	Panjabi	TO	Tongan
BE	Belorussian	IK	Inupiak	PL	Polish	TR	Turkish
BG	Bulgarian	IN	Indonesian	PS	Pashto, Pushto	TS	Tsonga
BH	Bihari	IS	Icelandic	PT	Portuguese	TT	Tatar
BI	Bislama	IW	Hebrew	QU	Quechua	TW	Twi
BN	Bengali, Bangla	JI	Yiddish	RM	Rhaeto-Romance	UK	Ukrainian
BO	Tibetan	JW	Javanese	RN	Kirundi	UR	Urdu
BR	Breton	KA	Georgian	RO	Rumanian	UZ	Uzbek
CA	Catalan	KK	Kazakh	RU	Russian	VI	Vietnamese
CO	Corsican	KL	Greenlandic	RW	Kinyarwanda	VO	Volapük
CS	Czech	KM	Cambodian	SA	Sanskrit	WO	Wolof
CY	Welsh	KN	Kannada	SD	Sindhi	XH	Xhosa
DA	Danish	KS	Kashmiri	SG	Sango	YO	Yoruba
DZ	Bhutani	KU	Kurdish	SH	Serbo-Croatian	ZU	Zulu
EL	Greek	KY	Kirghiz	SI	Singhalese		
		LA	Latin	SK	Slovak		

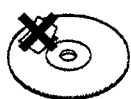
Notes on Discs

Handling Discs

- Do not touch the playback side of the disc.

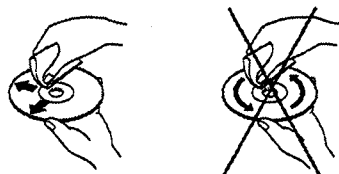


- Do not attach paper or tape to discs.



Cleaning Discs

- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outward with a soft cloth. Always keep the disc clean.



- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth, then dry the disc with a dry cloth.
- Do not use any type of solvent such as thinner, benzene, commercially available cleaners, or antistatic spray for vinyl LPs. It may damage the disc.

Storing Discs

- Do not store discs in a place subject to direct sunlight or heat.
- Do not store discs in places subject to moisture and dust, such as in a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing objects on discs may cause warping.

About This Owner's Manual

This owner's manual explains the basic instructions of this DVD video player. Some DVD video discs are produced in a manner that allows specific or limited operation during playback. As such, the DVD video player may not respond to all operating commands. This is not a defect in the DVD video player. Refer to the instruction notes of discs.

"⬇" may appear on the TV screen during operation.

A white "⬇" means that the operation is not permitted by the DVD video player; a red "⬇" means the operation is not permitted by the disc.

Notes on Region Numbers

The region number of this DVD video player is 1. If region numbers, which stand for their playable area, are printed on your DVD video disc and you do not find or , disc playback will not be allowed by the player. (In this case, the DVD video player displays a message.)

Playable Discs

This DVD video player can play the following discs.

	Disc mark	Contents	Disc size	Maximum playback time
DVD video discs		Audio + Video (moving pictures)	12 cm	Approx. 4 hours (single sided disc)
				Approx. 8 hours (double sided disc)
			8 cm	Approx. 80 minutes (single sided disc)
				Approx. 160 minutes (double sided disc)
VIDEO CDs		Audio + Video (moving pictures)	12 cm	Approx. 74 minutes
			8 cm	Approx. 20 minutes
Audio CDs		Audio	12 cm	Approx. 74 minutes
			8 cm (CD single)	Approx. 20 minutes

You cannot play discs other than those listed above.

This DVD video player uses the NTSC color system and cannot play DVD video discs recorded in any other color system (PAL, SECAM, etc.).

On VIDEO CD

This DVD video player supports the VIDEO CDs equipped with the PBC (Version 2.0) function. (PBC is the abbreviation of Playback Control.) You can enjoy two playback variations depending on types of discs.

• VIDEO CD not equipped with PBC function (Version 1.1)

Sound and movie can be played on this DVD video player in the same way as an audio CD.

• VIDEO CD equipped with PBC function (Version 2.0)

In addition to operations of a VIDEO CD not equipped with the PBC function, you can enjoy playback with interactive software and with a search function by using the menu displayed on the TV screen (Menu Playback). Some of the functions described in this owner's manual may not work with some discs.

Notes on Copyright

It is forbidden by law to copy, broadcast, show, broadcast on cable, play in public, and rent copyrighted material without permission.

DVD video discs are copy protected; and any recordings made from these discs will be distorted.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Before Calling Service Personnel

Check the following guide for the possible cause of a problem before requesting service.

Symptoms and Correction

Symptom	Cause	Correction	Page
No power	<ul style="list-style-type: none"> The power plug is disconnected. 	<ul style="list-style-type: none"> Connect the power plug securely into the wall outlet. 	11, 12
No picture	<ul style="list-style-type: none"> The TV is not set to receive DVD signal output. 	<ul style="list-style-type: none"> Select the appropriate video input mode on the TV so the picture from the DVD video player appears on the TV screen. 	15
	<ul style="list-style-type: none"> The video cable is not connected securely. 	<ul style="list-style-type: none"> Connect the video cable securely into the jacks. 	11, 12, 13, 14
No sound	<ul style="list-style-type: none"> The equipment connected with the audio cable is not set to receive DVD signal output. 	<ul style="list-style-type: none"> Select the correct input mode of the audio receiver so you can listen to the sound from the DVD video player. 	15
	<ul style="list-style-type: none"> The audio cable is not connected securely. 	<ul style="list-style-type: none"> Connect the audio cable securely into the jacks. 	11, 12, 13, 14
	<ul style="list-style-type: none"> The power of the equipment connected with the audio cable is turned off. 	<ul style="list-style-type: none"> Turn on the equipment connected with the audio cable. 	—
	<ul style="list-style-type: none"> The setting of output sound type is not correct. 	<ul style="list-style-type: none"> Set the audio setting correctly. 	29, 31
The playback picture has occasional distortion.	<ul style="list-style-type: none"> The disc is dirty. 	<ul style="list-style-type: none"> Eject the disc and clean it. 	40
	<ul style="list-style-type: none"> It is in fast forward or fast reverse playback. 	<ul style="list-style-type: none"> Sometimes a small amount of picture distortion may appear. This is not a malfunction. 	—
Brightness is unstable or noise is noticeable on playback pictures.	<ul style="list-style-type: none"> The copy protection is in effect. 	<ul style="list-style-type: none"> Connect the DVD video player directly to the TV. Avoid connecting the DVD video player to a VCR or TV/VCR combination. 	11
The DVD video player does not start playback.	<ul style="list-style-type: none"> No disc is inserted. 	<ul style="list-style-type: none"> Insert a disc. (Check that the DVD, VCD, or audio CD indicator in the DVD display is lit.) 	8
	<ul style="list-style-type: none"> An unplayable disc is inserted. 	<ul style="list-style-type: none"> Insert a playable disc. (Check the disc type and color system.) 	40
	<ul style="list-style-type: none"> The disc is placed upside down. 	<ul style="list-style-type: none"> Place the disc with the playback side down (label facing up). 	15
	<ul style="list-style-type: none"> The disc is not placed within the guide. 	<ul style="list-style-type: none"> Place the disc correctly inside the guide in the disc tray. 	15
	<ul style="list-style-type: none"> The disc is dirty. 	<ul style="list-style-type: none"> Clean the disc. 	40
	<ul style="list-style-type: none"> The parental lock function is set. 	<ul style="list-style-type: none"> Cancel the parental lock function or change the parental lock level. 	37, 38
Buttons do not work.	<ul style="list-style-type: none"> Power supply fluctuations or other abnormalities such as static electricity may interrupt correct operations. 	<ul style="list-style-type: none"> Turn the power on or off with the POWER button. Or, disconnect the power plug and insert it into the wall outlet again. 	—
The remote control does not work properly.	<ul style="list-style-type: none"> The remote control is not pointed at the remote sensor of the DVD video player. 	<ul style="list-style-type: none"> Point the remote control at the remote sensor of the DVD video player. 	10
	<ul style="list-style-type: none"> The remote control is too far from the DVD video player. 	<ul style="list-style-type: none"> Operate the remote control within about 20 feet. 	10
	<ul style="list-style-type: none"> The batteries in the remote control are exhausted. 	<ul style="list-style-type: none"> Replace the batteries with new ones. 	10

Specifications

DVD Video Player / Outputs / Supplied Accessories

[DVD Video Player]

Power supply	120 V AC, 60 Hz
Power consumption	18 W
Mass	3.4 kg
External dimensions	430 × 81 × 308 mm (W/H/D)
Signal system	Standard NTSC
Laser	Semiconductor laser, wavelength 650 nm
Frequency range (digital audio)	DVD linear sound : 48 kHz sampling 4 Hz to 22 kHz 96 kHz sampling 4 Hz to 44 kHz Audio CD : 4 Hz to 20 kHz
Signal-to-noise ratio (digital audio)	More than 110 dB
Audio dynamic range (digital audio)	More than 106 dB
Harmonic distortion (digital audio)	Less than 0.001 %
Wow and flutter	Below measurable level (less than ±0.001 % (W.PEAK))
Operating conditions	Temperature: 5 °C to 35 °C, Operation status: Horizontal

[Outputs]

Video output	1.0 V (p-p), 75 Ω, negative sync., pin jack × 1
S video output	(Y) 1.0 V (p-p), 75 Ω, negative sync., Mini DIN 4-pin × 1 (C) 0.286 V (p-p), 75 Ω
Audio output (digital audio)	0.5 V (p-p), 75 Ω, pin jack × 1
Audio output (analog audio)	2.0 V (rms), 220 Ω, pin jacks (L, R) × 1
Headphone terminal	32 Ω (30 mW), Impedance: more than 8 Ω

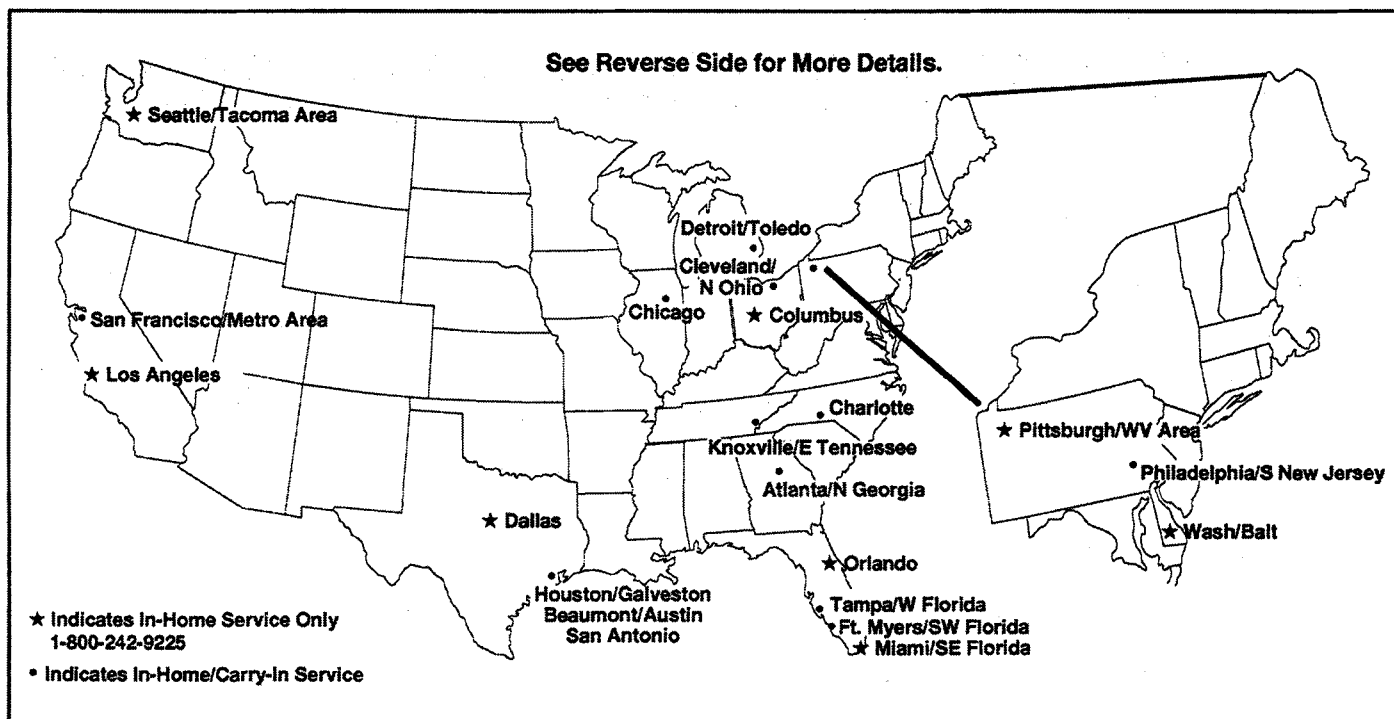
[Supplied Accessories]

S video cable	1
Audio/video cable	1
Remote control	1
Batteries (AA)	2

- Designs and specifications are subject to change without notice.

Philips Consumer Electronics Company

Factory Service Center Locations



NOTE: If you reside in one of our Philips Factory Service Branch areas (see directory on back), you can contact the nearest Service Branch to obtain efficient and expedient repair for your product. If your product is In-Warranty, you should have proof-of-purchase to ensure No Charge Service. For Out-of-Warranty service, call the location nearest you.

NOTA: Si vous résidez dans une des régions desservies par une succursale de service après vente du fabricant Philips (voir liste ci-dessous), vous pourrez contacter la branche de service après vente la plus près de chez vous pour obtenir un service après vente rapide et efficace. Si le produit est sous garantie, il suffira de présenter une preuve d'achat pour bénéficier d'un service sans frais. Pour les produits non couverts par la garantie, contactez le centre le plus près de chez vous.

NOTA: Si Ud. reside en una de nuestras zonas para sucursales Philips de servicio al de fábrica (ver directorio más abajo), Ud. puede comunicarse con la sucursal de servicio más cercana para obtener una reparación oportuna y eficaz de su producto. Si su producto está todavía bajo garantía, Ud. debe presentar comprobante de compra para no ocasionar ningunos cargos por servicio. Para servicio después del vencimiento de la garantía, llame al lugar más cercano de los abajo indicados.

In Canada

How you can obtain efficient and expedient carry-in, mail-in, or in-home service for your product

Please contact Philips at

1-800-661-6162 (French speaking)

1-800-363-7278 (English speaking)

Au Canada

Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre centre de service ou le service à domicile

Veuillez contacter philips à:

1-800-661-6162 (Francophone)

1-800-363-7278

En el Canadá

Cómo recibir servicio eficiente para su producto, en persona, por correo o a domicilio

Favor de comunicarse con Philips al:

1-800-661-6162 (francófono)

1-800-363-7278 (anglófono)

QUALITY SERVICE IS AS CLOSE AS YOUR TELEPHONE! SIMPLY LOOK OVER THE LIST BELOW FOR THE NUMBER OF A FACTORY SERVICE CENTER NEAR YOU. YOUR PRODUCT WILL RECEIVE EFFICIENT AND EXPEDIENT CARRY-IN, MAIL-IN, OR IN-HOME SERVICE, AND YOU WILL RECEIVE PEACE OF MIND, KNOWING YOUR PRODUCT IS BEING GIVEN THE EXPERT ATTENTION OF PHILIPS' FACTORY SERVICE. AND, IF THE PHONE NUMBER LISTED FOR YOUR AREA IS LONG DISTANCE, CALL 1-800-242-9225 FOR FACTORY SERVICE.

COMMENT OBTENIR NOTRE SERVICE APRÈS VENTE RAPIDE ET EFFICACE SOIT PAR COURRIER, À DOMICILE, OU EN SE PRÉSENTANT À UN CENTRE DE SERVICE PHILIPS. PLUS DE 600 CENTRES DE RÉCEPTION DE PRODUITS À RÉPARER À TRAVERS LE PAYS: CONTACTER LE CENTRE DE SERVICE AUX CONSOMMATEURS LE PLUS PROCHE POUR SAVOIR L'EMPLACEMENT DE CES DÉPÔTS DANS UN RAYON DE 50 À 75 MILES (80 KM À 120 KM) DU CENTRE DE SERVICE LOCAL.

CÓMO OBTENER UN SERVICIO OPORTUNO Y EFICIENTE POR CORREO, EN CASA O EN PERSONA PARA SU PRODUCTO A TRAVÉS DE UN CENTRO PHILIPS DE SERVICIO. MAS DE 600 SITIOS POR TODO EL PAIS PARA LA RECEPCION DE PRODUCTOS NECESITADOS DE REPARACIONES: COMUNICARSE CON EL CENTRO DE SERVICIO DE FABRICA MAS CERCANO PARA ESTOS LUGARES DENTRO DE UN RADIO DE 80 A 120 KM (50 A 75 MILLAS) DEL CENTRO DE SERVICIO LOCAL.

GEORGIA

Philips Factory Service of Georgia
200 N. Cobb Pkwy., Suite 120
Marietta, GA 30062
(770) 795-0085

FT. MYERS, FLORIDA

Philips Factory Service Satellite - Ft. Myers
11601 Cleveland Ave., Suite 15
Ft. Myers, FL 33907
(941) 278-4242

FLORIDA

Philips Factory Service of Florida
1911 US Highway 301 North
Tampa, FL 33619
(813) 621-8181

WESTERN U.S.A.

Philips Factory Service Western Region
681 East Brokaw Rd.
San Jose, CA 95112
(408) 436-8566

NORTH CAROLINA

Philips Factory Service of N. Carolina
520 G Clanton Rd.
Charlotte, NC 28217
(704) 529-6330

TEXAS

Philips Factory Service of Texas
1110 N. Post Oak Rd., Suite 100
Houston, TX 77055
(713) 682-3990

CENTRAL U.S.A.

Philips Factory Service Central US
950 Keynote Circle
Brooklyn Heights, OH 44131
(216) 741-3334

MICHIGAN

Philips Factory Service of Michigan
25173 Dequindre
Madison Heights, MI 48071
(248) 544-2110

ILLINOIS

Philips Factory Service of Illinois
1360 W. Hamilton Pkwy.
Itasca, IL 60143
(630) 775-0990

TENNESSEE

Philips Factory Service of East Tennessee
6700 D Papermill Rd.
Knoxville, TN 37919
(423) 584-6614

MID-ATLANTIC

Philips Factory Service Mid-Atlantic
352 Dunks Ferry Rd.
Bensalem, PA 19020
(215) 638-7500

LIMITED WARRANTY

DVD VIDEO PLAYER

90 Days Free Labor

One Year Exchange Warranty on Parts

This product must be carried in for repair.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. For 90 days thereafter, all parts will be repaired or replaced, and labor is free. From 90 days to one year from the day of purchase, all parts will be repaired or replaced, but you pay for all labor charges. After one year from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product that is used for commercial or institutional purposes (including but not limited to rental purposes).

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Take the product to a Philips factory service center (see enclosed list) or authorized service center for repair. When the product has been repaired, you must pick up the unit at the center. Centers may keep defective parts.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. Because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

1-800-661-6162 (French Speaking)

1-800-363-7278 (English Speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips Service Company, P.O. Box 555, Jefferson City, Tennessee 37760, (423) 475-8869